

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

Form 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2017

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Commission file number 001-37702

Amgen Inc.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

**One Amgen Center Drive,
Thousand Oaks, California**

(Address of principal executive offices)

95-3540776

(I.R.S. Employer Identification No.)

91320-1799

(Zip Code)

(805) 447-1000

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class
Common stock, \$0.0001 par value

Name of Each Exchange on Which Registered
The NASDAQ Global Select Market

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or Section 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§ 229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller reporting company)

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act) Yes No

The approximate aggregate market value of voting and non-voting stock held by non-affiliates of the registrant was \$125,649,811,435 as of June 30, 2017.^(A)

(A) Excludes 1,188,740 shares of common stock held by directors and executive officers, and any stockholders whose ownership exceeds ten percent of the shares outstanding, at June 30, 2017. Exclusion of shares held by any person should not be construed to indicate that such person possesses the power, directly or indirectly, to direct or cause the direction of the management or policies of the registrant, or that such person is controlled by or under common control with the registrant.

720,562,246

(Number of shares of common stock outstanding as of February 9, 2018)

DOCUMENTS INCORPORATED BY REFERENCE

Specified portions of the registrant's Proxy Statement with respect to the 2018 Annual Meeting of stockholders to be held May 22, 2018, are incorporated by reference into Part III of this annual report.

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PART I

Item 1. BUSINESS

Amgen Inc. (including its subsidiaries, referred to as “Amgen,” “the Company,” “we,” “our” or “us”) is committed to unlocking the potential of biology for patients suffering from serious illnesses by discovering, developing, manufacturing and delivering innovative human therapeutics. This approach begins by using tools like advanced human genetics to unravel the complexities of disease and understand the fundamentals of human biology.

Amgen focuses on areas of high unmet medical need and leverages its expertise to strive for solutions that improve health outcomes and dramatically improve people’s lives. A biotechnology pioneer, Amgen has grown to be one of the world’s leading independent biotechnology companies, has reached millions of patients around the world and is developing a pipeline of medicines with breakaway potential.

Our strategy is to develop innovative medicines in six focused therapeutic areas that meet important unmet medical needs in addressing serious illness. We have a presence in approximately 100 countries worldwide with a primary focus in: oncology/hematology, cardiovascular disease, inflammation, bone health, nephrology and neuroscience.

Amgen was incorporated in California in 1980 and became a Delaware corporation in 1987. Amgen operates in one business segment: human therapeutics.

Significant Developments

Following is a summary of significant developments affecting our business that have occurred and that we have reported since the filing of our Annual Report on Form 10-K for the year ended December 31, 2016, and in early 2018.

Products/Pipeline

Bone health

Prolia® (denosumab)

- In October 2017, we announced that the U.S. Food and Drug Administration (FDA) accepted for review the supplemental Biologics License Application (sBLA) for Prolia® for the treatment of patients with glucocorticoid-induced osteoporosis. The sBLA is based on a phase 3 study evaluating the safety and efficacy of Prolia® compared with risedronate in patients receiving glucocorticoid treatment. The FDA has set a Prescription Drug User Fee Act (PDUFA) target action date of May 28, 2018.

XGEVA® (denosumab)

- In April 2017, we announced the submission of an application for a variation to the marketing authorization to the European Medicines Agency (EMA) for XGEVA®. The submission to the regulatory authority seeks to expand the currently approved XGEVA® indication for the prevention of skeletal-related events (SREs) in patients with bone metastases from solid tumors to include patients with multiple myeloma.
- In January 2018, we announced that the FDA approved the sBLA for XGEVA® to expand the currently approved indication for the prevention of SREs in patients with bone metastases from solid tumors to include patients with multiple myeloma.
- In February 2018, we announced that a phase 3 study of XGEVA® for a potential new indication as adjuvant treatment for women with high-risk, early stage breast cancer receiving standard of care neoadjuvant or adjuvant cancer therapy did not meet its primary endpoint of bone metastasis-free survival.

*EVENTITY™ (romosozumab)**

- In May 2017, we and UCB, our global collaboration partner in the development of EVENTITY™, announced that the EVENTITY™ ARCH (Active-contRolled FraCture Study in Postmenopausal Women with Osteoporosis at High Risk of Fracture) study met both primary endpoints and the key secondary endpoint. An imbalance in positively adjudicated cardiovascular serious adverse events was observed in the study as a new safety signal.
- In July 2017, we and UCB announced that the FDA issued a Complete Response Letter for the Biologics License Application (BLA) for EVENTITY™ as a treatment for postmenopausal women with osteoporosis. We intend to provide a resubmission, which will include data from the phase 3 ARCH study and select data from the phase 3 BRIDGE (PlaceBo-contRolled Study EvaluatIng the Efficacy anD Safety of Romosozumab in TreatinG mEn with Osteoporosis) study evaluating EVENTITY™ in men with osteoporosis, in addition to the phase 3 FRAME (FRActure study in postmenopausal

woMen with osteoporosis) study. We are currently evaluating all EVENITY™ data and will be working in close collaboration with the FDA.

- In January 2018, we and UCB announced that the EMA accepted the Marketing Authorization Application (MAA) for EVENITY™ for the treatment of osteoporosis in postmenopausal women and in men at increased risk of fracture.

Cardiovascular

Repatha® (evolocumab)

- In February 2017, we announced that the European Commission (EC) adopted a decision to change the Repatha® marketing authorization, approving a new single-dose, monthly delivery option. The new automated mini-doser with a pre-filled cartridge is a hands-free device that provides 420 mg of Repatha® in a single injection per administration.
- In March 2017, we announced that the phase 3 study evaluating Repatha® in patients who were receiving apheresis to reduce low-density lipoprotein cholesterol (LDL-C) met its primary endpoint.
- In June 2017, we announced the submission of an application for a variation to the marketing authorization to the EMA for Repatha®. The regulatory submission is based on the Repatha® cardiovascular outcomes study, FOURIER (Further Cardiovascular Outcomes Research with Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) Inhibition in Subjects with Elevated Risk).
- In October 2017, the U.S. Court of Appeals for the Federal Circuit issued a ruling that reversed in part the decision of the U.S. District Court for the District of Delaware that had prohibited Sanofi, Sanofi-Aventis U.S. LLC, Aventisub LLC, formerly doing business as Aventis Pharmaceuticals Inc., and Regeneron Pharmaceuticals, Inc. from infringing two patents that we hold for Repatha® by manufacturing, using, selling, offering for sale or importing alirocumab in the United States. See Part IV—Note 18, Contingencies and commitments, to the Consolidated Financial Statements.
- In October 2017, we announced that a phase 3 study of Repatha® on top of maximally tolerated statin therapy in type 2 diabetic patients with hypercholesterolemia met its co-primary endpoints of the percent reduction from baseline in LDL-C at week 12 and the mean percent reduction from baseline in LDL-C at weeks 10 and 12. No new safety findings were identified.
- In December 2017, we announced that following priority review of our sBLA, the FDA approved Repatha® as the first PCSK9 inhibitor to prevent heart attacks, strokes and coronary revascularizations in adults with established cardiovascular disease based on data from the Repatha® cardiovascular outcomes study. The FDA also approved Repatha® to be used as an adjunct to diet, alone or in combination with other lipid-lowering therapies, such as statins, for the treatment of adults with primary hyperlipidemia to lower LDL-C. The new label also included data from the Repatha® cognitive function study showing Repatha® was non-inferior to placebo on selected cognitive function domains as assessed with the use of neuropsychological function tests over a median follow-up of 19 months.

Neuroscience

*Aimovig™ (erenumab)**

- In April 2017, we announced an expanded collaboration with Novartis AG (Novartis) for Aimovig™, which is being investigated for the prevention of migraine. As part of the expanded collaboration, Amgen and Novartis agreed to combine capabilities to co-commercialize Aimovig™ in the United States.
- In July 2017, we announced that the FDA accepted for review the BLA for Aimovig™ for the prevention of migraine in patients experiencing four or more migraine days per month. The FDA has set a PDUFA target action date of May 17, 2018.
- In January 2018, a phase 3b study met its primary endpoint and all secondary endpoints in patients with episodic migraine who had experienced two to four previous preventive treatment failures due to lack of efficacy or intolerable side effects.

Oncology/Hematology

Aranesp® (darbepoetin alfa)

- In October 2017, we announced that after a recommendation by the data safety monitoring committee, a phase 3 post-marketing requirement study to evaluate the safety and efficacy of Aranesp® in anemic patients with advanced non-small cell lung cancer receiving multi-cycle chemotherapy was terminated early. The study successfully met its primary endpoint of non-inferiority in overall survival compared to placebo, with no new safety findings.

BLINCYTO® (blinatumomab)

- In July 2017, we announced that the FDA approved the sBLA for BLINCYTO® to include overall survival data from the phase 3 TOWER study. The approval converted BLINCYTO®'s accelerated approval to a full approval. The approval expanded the indication of BLINCYTO® for the treatment of relapsed or refractory B-cell precursor acute lymphoblastic leukemia (ALL) in adults and children.
- In December 2017, we announced that the FDA accepted for priority review the sBLA for the treatment of minimal residual disease in patients with ALL. The FDA has set a PDUFA target action date of March 29, 2018.
- In February 2018, we announced that the Committee for Medicinal Products for Human Use (CHMP) of the EMA adopted a positive opinion recommending a label variation for BLINCYTO® to include overall survival data from the phase 3 TOWER study supporting the conversion of the conditional marketing authorization to a full marketing authorization in adult patients with Philadelphia chromosome-negative relapsed or refractory B-cell precursor ALL.

KYPROLIS® (carfilzomib)

- In July 2017, we announced positive results from the final analysis of the phase 3 ASPIRE (CARfilzomib, Lenalidomide, and Dexamethasone versus Lenalidomide and Dexamethasone for the treatment of Patients with Relapsed Multiple Myeloma) study. The study met the key secondary endpoint of overall survival, demonstrating that KYPROLIS®, lenalidomide and dexamethasone reduced the risk of death by 21% over lenalidomide and dexamethasone alone.
- In October 2017, we announced top-line results of the phase 3 ARROW (RANDOMIZED, Open-label, Phase 3 Study in Subjects with Relapsed and Refractory Multiple Myeloma Receiving Carfilzomib in Combination with Dexamethasone, Comparing Once-Weekly versus Twice-weekly Carfilzomib Dosing) study, which showed KYPROLIS® administered once-weekly at the 70 mg/m² dose with dexamethasone allowed relapsed and refractory multiple myeloma patients to live 3.6 months longer without their disease worsening than KYPROLIS® administered twice-weekly at the 27 mg/m² dose with dexamethasone. The overall safety profile of the once-weekly KYPROLIS® regimen was comparable to that of the twice-weekly regimen.
- In December 2017, we submitted a supplemental New Drug Application (sNDA) to the FDA and a variation to the Marketing Authorization to the EMA to include the overall survival data from the ASPIRE study in the product label.
- In January 2018, we announced that the FDA approved the sNDA to add overall survival data from the phase 3 head-to-head ENDEAVOR study to the prescribing information for KYPROLIS®.
- In January 2018, we announced that the CHMP of the EMA adopted a positive opinion recommending a label variation for KYPROLIS® to include updated overall survival data from the phase 3 head-to-head ENDEAVOR (Randomized, Open Label, Phase 3 Study of Carfilzomib Plus Dexamethasone Vs Bortezomib Plus Dexamethasone in Patients With Relapsed Multiple Myeloma) study in patients with relapsed or refractory multiple myeloma. The ENDEAVOR study demonstrated that KYPROLIS® and dexamethasone reduced the risk of death by 21 percent, and increased overall survival by 7.6 months versus VELCADE® (bortezomib) and dexamethasone.

Vectibix® (panitumumab)

- In June 2017, we announced that the FDA approved the sBLA for Vectibix® to more precisely define patients with wild-type RAS metastatic colorectal cancer, as first-line therapy in combination with FOLFOX and as monotherapy following disease progression after prior treatment with fluoropyrimidine, oxaliplatin and irinotecan-containing chemotherapy.

Nephrology

Sensipar®/Mimpara® (cinacalcet)

- In August 2017, we announced that the EC granted Marketing Authorization of a pediatric formulation (granules in capsule for opening) of Mimpara® for the treatment of secondary hyperparathyroidism (sHPT) in children aged three years and older with end-stage renal disease on maintenance dialysis therapy in whom sHPT is not adequately controlled with standard of care therapy.

Biosimilars

AMJEVITA™ (adalimumab-atto) / AMGEVITA™ (biosimilar adalimumab)

- In March 2017, we announced that the EC granted market authorization for AMGEVITA™, a biosimilar to AbbVie's HUMIRA®, in all available indications.
- In September 2017, we announced that we have reached a global settlement with AbbVie to resolve all pending litigation regarding AMJEVITA™/AMGEVITA™. Under terms of the agreement, AbbVie will grant patent licenses for the use and sale of AMJEVITA™/AMGEVITA™ worldwide, on a country-by-country basis, and the companies have agreed to dismiss all pending patent litigation. We expect to launch AMGEVITA™ in Europe in October 2018 and AMJEVITA™ in the United States in January 2023.

ABP 980

- In March 2017, we announced the submission of a MAA to the EMA for ABP 980, a biosimilar candidate to Herceptin® (trastuzumab). ABP 980 is being developed in collaboration with Allergan plc (Allergan).
- In October 2017, we announced that the FDA accepted for review a BLA for ABP 980. The FDA has set a Biosimilar User Fee Act target action date of May 28, 2018.

MVASI™ (bevacizumab-awwb)

- In September 2017, we announced that the FDA approved MVASI™ for all eligible indications of the reference product, Avastin®. MVASI™ is the first anti-cancer biosimilar, as well as the first bevacizumab biosimilar, approved by the FDA. MVASI™ is approved for the treatment of five types of cancer. MVASI™ is being developed in collaboration with Allergan.
- In January 2018, we announced that the EC granted marketing authorization for MVASI™ (biosimilar bevacizumab) for the treatment of certain types of cancers.

Next-generation biomanufacturing

- In May 2017, our next-generation biomanufacturing plant in Singapore was approved by the FDA for certain commercial production.

2017 U.S. Tax Reform

- On December 22, 2017, the United States enacted major tax reform legislation, Public Law No. 115-97, commonly referred to as the Tax Cuts and Jobs Act (2017 Tax Act). The 2017 Tax Act imposes a repatriation tax on accumulated earnings of foreign subsidiaries, implements a territorial tax system together with a current tax on certain foreign earnings and lowers the general corporate income tax rate to 21%. See Part IV—Note 5, Income taxes, to the Consolidated Financial Statements.

Offer to Purchase Common Stock

- On February 5, 2018, we announced a tender offer to purchase up to \$10 billion of our common stock at a price not greater than \$200 per share nor less than \$175 per share. The tender is based on our confidence in the long-term outlook for our business, enhanced by the 2017 Tax Act, and is consistent with our ongoing objective to return capital to our stockholders. The tender offer expires at 12:00 Midnight, New York City time, at the end of Monday, March 5, 2018, unless the offer is extended.

* FDA provisionally approved trade name

Marketing, Distribution and Selected Marketed Products

The largest concentration of our sales and marketing forces is based in the United States and Europe. Additionally, we continue to expand the commercialization and marketing of our products into other geographic territories, including parts of Latin America, the Middle East and Asia. This expansion is occurring by establishing our own affiliates, by acquiring existing third-party businesses or product rights or by partnering with third parties. Whether we use our own sales and marketing forces or a third-party's varies across these markets. Such use typically depends on several factors, including the nature of entry into the new market, the size of an opportunity and operational capabilities. Together with our partners, we market our products to healthcare providers, including physicians or their clinics, dialysis centers, hospitals and pharmacies.

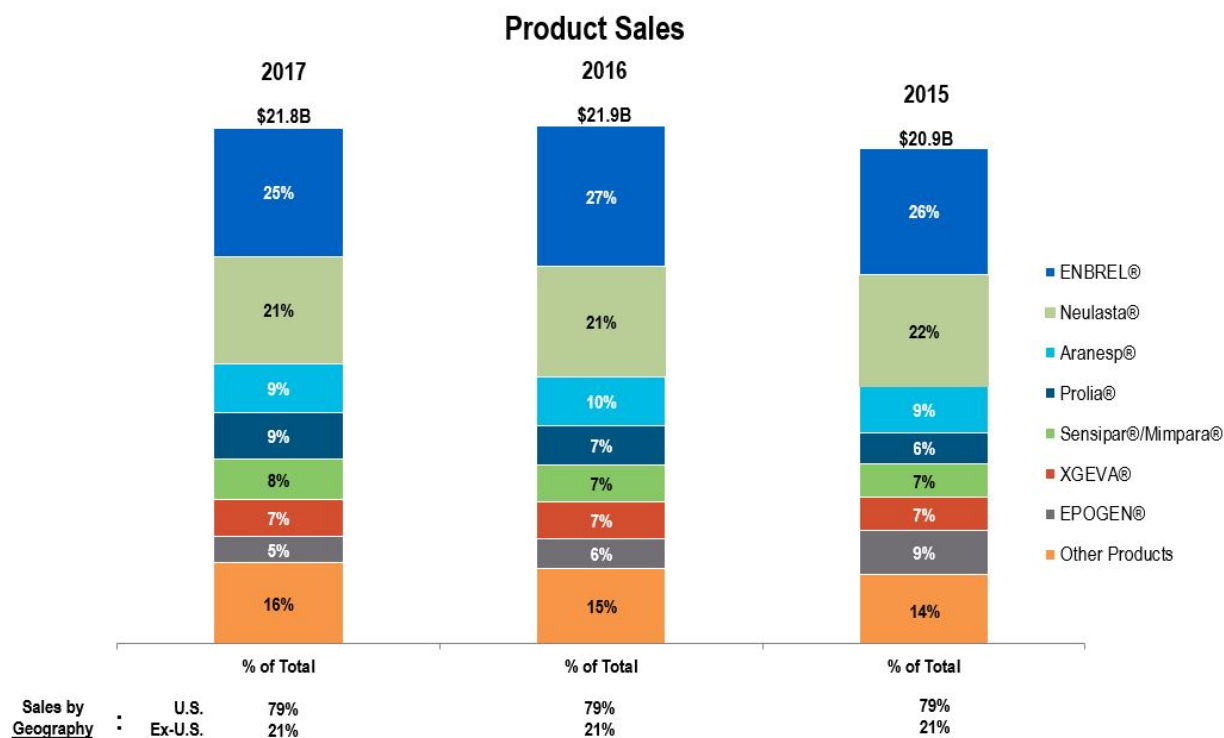
In the United States, we sell primarily to pharmaceutical wholesale distributors that are the principal means of distributing our products to healthcare providers. We also market certain products directly to consumers through several direct-to-consumer channels, including print, television and online media, as well as through multi-channel marketing. For further discussion, see

Government Regulation—Regulation of Product Marketing and Promotion. Outside the United States, we sell principally to healthcare providers and/or pharmaceutical wholesale distributors depending on the distribution practice in each country.

Our product sales to three large wholesalers, AmerisourceBergen Corporation, McKesson Corporation and Cardinal Health, Inc., each individually accounted for more than 10% of total revenues for each of the years ended December 31, 2017, 2016 and 2015. On a combined basis, these wholesalers accounted for 96%, 96% and 97% of our U.S. gross product sales, for each of the years ended December 31, 2017, 2016 and 2015, respectively, and 81% of worldwide gross revenues for each of these years. We monitor the financial condition of our larger customers and limit our credit exposure by setting credit limits and, in certain circumstances, by requiring letters of credit or obtaining credit insurance.

For financial information related to our one business segment, see Part IV—Consolidated Statements of Income, Consolidated Balance Sheets, and Note 19, Segment information, to the Consolidated Financial Statements.

Our products are marketed around the world with the United States being our largest market. The following chart shows our product sales by principal product and by geography for the years ended 2017, 2016 and 2015.



Enbrel® (etanercept)

We market ENBREL primarily in the United States. It was launched in 1998 and is used primarily in indications for the treatment of adult patients with the following conditions:

- moderately to severely active rheumatoid arthritis,
- chronic moderate-to-severe plaque psoriasis patients who are candidates for systemic therapy or phototherapy, and
- active psoriatic arthritis.

Neulasta® (pegfilgrastim)

We market Neulasta®, a pegylated protein based on the filgrastim molecule, primarily in the United States and Europe. Neulasta® was launched in 2002, and is used primarily in the indication to help reduce the chance of infection due to a low white blood cell count, in patients with certain types of cancer (non-myeloid) who receive anti-cancer medicines (chemotherapy) that can cause fever and a low blood cell count. In 2015, the Neulasta® Onpro® kit became available in the United States. The Neulasta® Onpro® kit provides patients the opportunity to administer the recommended dose of Neulasta® at home the day after chemotherapy, saving a trip back to the doctor.

Aranesp® (darbepoetin alfa)

We market Aranesp® primarily in Europe and the United States. It was launched in 2001, and is indicated to treat a lower-than-normal number of red blood cells (anemia) caused by chronic kidney disease (CKD) (in both patients on dialysis and patients not on dialysis). Aranesp® is also indicated for the treatment of anemia due to concomitant myelosuppressive chemotherapy in patients with non-myeloid malignancies, and when chemotherapy will be used for at least two months after starting Aranesp®.

Aranesp® and EPOGEN® compete with each other in the United States, primarily in the dialysis setting.

Prolia® (denosumab)

We market Prolia® primarily in the United States and Europe. Prolia® contains the same active ingredient as XGEVA® but is approved for different indications, patient populations, doses and frequencies of administration. Prolia® was launched in the United States and Europe in 2010. In the United States, it is used primarily in the indication for the treatment of postmenopausal women with osteoporosis at high risk for fracture, defined as a history of osteoporotic fracture, or multiple risk factors for fracture; or patients who have failed or are intolerant to other available osteoporosis therapy. In Europe, Prolia® is used primarily for the treatment of osteoporosis in postmenopausal women at increased risk of fracture.

Sensipar®/Mimpara® (cinacalcet)

We market cinacalcet as Sensipar® primarily in the United States and as Mimpara® primarily in Europe. It was launched in 2004 and is used primarily in the indication for the treatment of sHPT in adult patients with CKD who are on dialysis.

XGEVA® (denosumab)

We market XGEVA® primarily in the United States and Europe. XGEVA® was launched in the United States in 2010, and is used primarily in the indication for the prevention of SREs (pathological fracture, radiation to bone, spinal cord compression or surgery to bone) in patients with bone metastases from solid tumors, including multiple myeloma. XGEVA® was launched in Europe in 2011, and is used primarily in the indication for the prevention of SREs in patients with bone metastases from solid tumors, and was recently approved for the prevention of SREs in patients with multiple myeloma.

EPOGEN® (epoetin alfa)

We market EPOGEN® in the United States for dialysis patients. EPOGEN® was launched in 1989, and we market it for the indication to treat anemia caused by CKD in patients on dialysis to lessen the need for red blood cell transfusions. The majority of our sales are to a large dialysis provider.

Other Marketed Products

We also market a number of other products, including KYPROLIS® (carfilzomib), Vectibix® (panitumumab), Nplate® (romiplostim), NEUPOGEN® (filgrastim), Repatha® (evolocumab), BLINCYTO® (blinatumomab), IMLYGIC® (talimogene laherparepvec), Corlanor® (ivabradine) and Parsabiv™ (etelcalcetide).

Patents

The following table describes our outstanding material patents for the indicated product by territory, general subject matter and latest expiry date. Certain of the European patents are the subject of supplemental protection certificates that provide additional protection for the product in certain European countries beyond the dates listed in the table (see footnotes).

One or more patents with the same or earlier expiry date may fall under the same “general subject matter” and are not listed separately.

| Product | Territory | General subject matter | Expiration |
|--|-----------|--|------------|
| Enbrel® (etanercept) | U.S. | Methods of treating psoriasis | 8/13/2019 |
| | U.S. | Aqueous formulation and methods of treatment using the formulation | 6/8/2023 |
| | U.S. | Fusion protein, and pharmaceutical compositions | 11/22/2028 |
| | U.S. | DNA encoding fusion protein, and methods of making fusion protein | 4/24/2029 |
| Aranesp® (darbepoetin alfa) | U.S. | Glycosylation analogs of erythropoietin proteins | 5/15/2024 |
| Prolia®/ XGEVA® (denosumab) | U.S. | RANKL antibodies; and methods of use ⁽¹⁾ | 12/22/2017 |
| | U.S. | Methods of treatment | 6/25/2022 |
| | U.S. | Nucleic acids encoding RANKL antibodies, and methods of producing RANKL antibodies | 11/30/2023 |
| | U.S. | RANKL antibodies including sequences | 2/19/2025 |
| | Europe | Medical use of RANKL antibodies | 4/15/2018 |
| | Europe | RANKL antibodies including epitope binding | 2/23/2021 |
| | Europe | RANKL antibodies including sequences ⁽²⁾ | 6/25/2022 |
| Sensipar®/ Mimpara® (cinacalcet) | U.S. | Calcium receptor-active molecules | 3/8/2018 |
| | U.S. | Formulation | 9/22/2026 |
| | Europe | Calcium receptor-active molecules ⁽²⁾ | 10/23/2015 |
| KYPROLIS® (carfilzomib) | U.S. | Compositions and compounds | 12/7/2027 |
| | U.S. | Methods of treatment | 4/14/2025 |
| | Europe | Compositions, compounds and methods of treatment ⁽²⁾ | 8/8/2025 |
| Vectibix® (panitumumab) | U.S. | Human monoclonal antibodies to epidermal growth factor receptor (EGFr) | 4/8/2020 |
| | Europe | Human monoclonal antibodies to EGFr ⁽²⁾ | 5/5/2018 |
| Nplate® (romiplostim) | U.S. | Thrombopoietic compounds | 1/19/2022 |
| | U.S. | Formulation | 2/12/2028 |
| | Europe | Thrombopoietic compounds ⁽²⁾ | 10/22/2019 |
| | Europe | Formulation | 4/20/2027 |
| Repatha® (evolocumab) | U.S. | Antibodies ⁽³⁾ | 10/25/2029 |
| | U.S. | Methods of treatment | 10/8/2030 |
| | Europe | Compositions and method of treatment | 8/22/2028 |
| BLINCYTO® (blinatumomab) | U.S. | Bifunctional polypeptides ⁽³⁾ | 4/21/2019 |
| | U.S. | Method of administration | 9/28/2027 |
| | Europe | Bifunctional polypeptides ⁽²⁾ | 11/26/2024 |
| | Europe | Method of administration | 11/29/2026 |
| IMLYGIC® (talimogene laherparepvec) | U.S. | Compositions and method of treatment ⁽³⁾ | 1/22/2021 |
| | Europe | Composition and uses ⁽²⁾ | 1/22/2021 |
| Parsabiv™ (etelcalcetide) | U.S. | Compound and pharmaceutical composition | 7/29/2030 |
| | Europe | Compound and pharmaceutical composition | 7/29/2030 |

- (1) The U.S. Patent and Trademark Office has issued a Notice of Final Determination that a patent with this subject matter is eligible for patent term extension with an expiry of September 17, 2021.
- (2) A European patent with this subject matter may also be entitled to supplemental protection in one or more countries in Europe, and the length of any such extension will vary by country. For example, supplementary protection certificates have been issued related to the indicated products for patents in at least the following countries:
- denosumab — France, Italy, Spain and the United Kingdom, expiring in 2025
 - cinacalcet — France, Germany, Spain and the United Kingdom, expiring in 2019; and Italy, expiring in 2020
 - carfilzomib — France, Germany, Italy and Spain, expiring in 2030
 - panitumumab — France, Germany, Italy, Spain and the United Kingdom, expiring in 2022
 - romiplostim — France, Germany, Italy, Spain and the United Kingdom, expiring in 2024
 - blinatumomab — France, Italy and Spain, expiring in 2029
 - talimogene laherparepvec — Italy, expiring in 2026
- (3) A patent with this subject matter may be entitled to patent term extension in the United States.

Competition

We operate in a highly competitive environment. A number of our marketed products are indicated in disease areas where other products or treatments are currently available or are being pursued by our competitors through research and development (R&D) activities. We continue to pursue ways to increase the value of our medicines through innovations during their lifecycles. This can include expanding the disease areas for which our products are indicated and finding new methods to make the delivery of our medicines easier and less costly. Such activities can offer important opportunities for differentiation. For example, in 2015, we launched the Neulasta® Onpro® kit, which provides patients the opportunity to administer the recommended dose of Neulasta® at home the day after chemotherapy, thereby saving a trip back to the doctor. We also developed the AutoTouch™ reusable auto-injector to be used with Enbrel Mini™ single-dose prefilled cartridges (50 mg/mL), which was approved by the FDA in September 2017. The Enbrel Mini™ utilizes a new drug formulation of ENBREL that was associated with substantially significant lower mean injection site pain than the current formulation. We plan to continue pursuing such innovation efforts to strengthen our competitive position. Such position may be based on, among other things, safety, efficacy, reliability, availability, patient convenience/delivery devices, price, reimbursement, access to and timing of market entry and patent position and expiration.

Certain of the existing patents on our principal products have expired, and we face new and increasing competition, including from biosimilars and generics. We may also compete against biosimilar or generic versions of our competitors' products. A biosimilar is another version of a biological product for which marketing approval is sought or has been obtained based on a demonstration that it is "highly similar" to the original reference product. See Government Regulation. We expect that the adverse impact from biosimilars will be more like branded biologic competition than that seen when branded small molecules face generics. Although we expect biosimilars to compete on price, we believe many patients, providers and payers will continue to place high value on the reputation, reliability and safety of our products. Zarxio®, a biosimilar version of NEUPOGEN® from Sandoz, a Novartis company (Sandoz), which launched in the United States in 2015, was the first biosimilar entrant into the U.S. market. Companies have pending applications with the FDA for biosimilar versions of EPOGEN® and Neulasta®, along with additional biosimilar versions of NEUPOGEN®. See also Government Regulation—Regulation in the United States—Approval of Biosimilars. As biosimilar competitors come to market, we will leverage both the experience we have had in the United States versus branded competition, and our experience in competing against epoetin alfa and filgrastim biosimilars in Europe.

The introduction of new products, the development of new processes or technologies by competitors or the emergence of new information about existing products may result in increased competition for our marketed products, even for those protected by patents, or in reductions in the prices we receive from selling our products. In addition, the development of new treatment options or standards of care may reduce the use of our products or may limit the utility and application of ongoing clinical trials for our product candidates. (As used in this document, the term *clinical trials* may include prospective clinical trials, observational studies, registries and other studies.) See Item 1A. Risk Factors—*Our products face substantial competition* and Item 1A. Risk Factors—*We currently face competition from biosimilars and expect to face increasing competition from biosimilars and generics in the future.*

The following table reflects our significant competitors and is not exhaustive.

| Product | Territory | Competitor marketed product | Competitors |
|--|---------------|--|---|
| ENBREL | U.S. & Canada | REMICADE®* | Janssen Biotech, Inc. (Janssen) ⁽¹⁾ |
| | U.S. & Canada | HUMIRA® | AbbVie Inc. |
| | U.S. & Canada | STELARA® ⁽²⁾ | Janssen ⁽¹⁾ |
| | U.S. & Canada | Otezla® ⁽²⁾ | Celgene Corporation (Celgene) |
| Neulasta® ⁽³⁾ | Europe | Filgrastim biosimilars | Various |
| Aranesp® | U.S. | PROCRIT® ⁽⁴⁾ | Janssen ⁽¹⁾ |
| | U.S. | MIRCERA® ⁽⁵⁾ | Galenica Group (Galenica)/F. Hoffmann-La Roche Ltd. (Roche) |
| | Europe | Epoetin alfa biosimilars | Various |
| Prolia® | U.S. & Europe | Alendronate, raloxifene and zoledronate generics | Various |
| Sensipar® ⁽⁶⁾ / Mimpara® | U.S. & Europe | Active vitamin D analogs | Various |
| XGEVA® | U.S. & Europe | Zoledronate generics | Various |
| EPOGEN® ⁽³⁾ | U.S. | MIRCERA® ⁽⁵⁾ | Galenica/Roche |
| KYPROLIS® ⁽⁸⁾ | U.S. | VELCADE® | Millennium Pharmaceuticals, Inc. ⁽⁷⁾ |
| | U.S. | REVLIMID® | Celgene |
| | U.S. | POMALYST® | Celgene |
| | U.S. | DARZALEX® | Janssen ⁽¹⁾ |
| Repatha® | U.S. & Europe | PRALUENT® | Regeneron Sanofi |

* Approved biosimilars available.

⁽¹⁾ A subsidiary of Johnson & Johnson (J&J).

⁽²⁾ Dermatology only.

⁽³⁾ Biosimilars under regulatory review in the United States.

⁽⁴⁾ PROCRIT® competes with Aranesp® in the supportive cancer care and pre-dialysis settings.

⁽⁵⁾ MIRCERA® competes with Aranesp® only in the nephrology segment.

⁽⁶⁾ Our U.S. composition of matter patent for Sensipar® expires in March 2018. We are engaged in litigation with a number of companies seeking to market generic versions of Sensipar® surrounding our U.S. formulation patent that expires in September 2026. See Part IV—Note 18, Contingencies and commitments, to the Consolidated Financial Statements, for further information. Several of these generic versions of Sensipar® have been tentatively approved by the FDA.

⁽⁷⁾ A subsidiary of Takeda Pharmaceutical Company Limited.

⁽⁸⁾ KYPROLIS® is facing increased competition from several recently approved products.

Reimbursement

Sales of our principal products are dependent on the availability and extent of coverage and reimbursement from third-party payers. In many markets around the world, these payers, including government health systems, private health insurers and other organizations, remain intensely focused on reducing the cost of healthcare. Their efforts have intensified as a result of rising healthcare costs and economic challenges. Drugs, and in particular specialty drugs such as our products, remain heavily scrutinized for cost containment. As a result, payers are being more restrictive regarding the use of biopharmaceutical products, while requiring a higher level of clinical evidence to support the benefit such products bring to patients and the broader healthcare system.

In the United States, biopharmaceutical product pricing remains central to discussions on controlling healthcare costs. The pricing practices of certain companies have increased public media and government scrutiny of the biopharmaceutical industry,

providing greater incentive for governments and private payers to limit or regulate the prices of drug products and services. Policymakers from both major U.S. political parties, including key members of the presidential administration, have indicated their support for pursuing policies to lower drug costs for patients. At the same time, value assessments of new technologies, previously used predominantly outside the United States, are having an impact in the U.S. healthcare environment. Healthcare provider organizations and independent organizations are creating their own value assessments of biopharmaceutical drugs for comparison with manufacturer pricing. Although these organizations do not set drug prices, they seek to influence pricing as well as payer and provider decision making by publicly disclosing their assessments, often making assertions around what they believe to be the appropriate price to charge for a product. In addition, continued consolidation of payers and integration of providers and payers (integrated delivery systems) increase the level of market power held by our customers. These developments put greater pressure on access to, pricing of and sales of our products.

In the United States, healthcare providers are reimbursed for covered services and products they deliver through Medicare, Medicaid and other government healthcare programs, as well as through private payers. Pharmacies are also reimbursed in a similar manner for drug products they dispense. We are required to provide rebates or discounts on our products that are reimbursed through certain government programs, including Medicare and Medicaid, and also provide discounts to qualifying health care providers under the Federal 340B Drug Pricing Program. These rebates and/or discounts levels, as well as entities who are entitled to receive them, have increased over time. For example, the Patient Protection and Affordable Care Act (ACA), enacted in 2010, increased many of the mandatory discounts and rebates required of us. The ACA also imposed a new Branded Prescription Pharmaceutical Manufacturers and Importers fee payable each year by us and other manufacturers. The U.S. presidential administration has identified repealing and replacing the ACA as a priority. In the tax reform bill signed by President Trump in December 2017, Congress removed a key ACA provision by repealing the individual mandate penalty which required each individual to have health insurance or pay a penalty. Future changes to government programs such as the ACA, whether legislative or regulatory, could impact the number of patient lives covered, could raise or lower the cost of quality insurance, could affect Medicaid eligibility and could change levels of patient protections provided unless alternatives are put in place.

Additional efforts by state legislatures and government agencies in the United States could also affect us and our industry. For example, a recently enacted California law requires manufacturers to provide payers advance notice of a price increase over a specified threshold, and a Vermont law requires manufacturers to submit price increase justifications to the state attorney general if certain price increase and state-spending thresholds are met. Examples of other proposals that have been discussed and debated, but not yet enacted, include state ballot initiatives that would place a maximum price ceiling, or cap, on pharmaceutical products purchased by state agencies and state legislative efforts to cap pharmaceutical prices for commercial payers. Other government legislative and regulatory actions that would have a significant impact on Amgen include: changes to how the Medicare program covers and reimburses current and future drugs, including for patients with End-Stage Renal Disease; changes in the Federal payment rate or new rebate requirements for covered drugs and policies for drug payment in Medicare or Medicaid; and changes to coverage and payment for biosimilars, such as policies that would enable easier substitution for, or provide reimbursement advantages over, the corresponding innovative products. Centers for Medicare & Medicaid Services (CMS) has indicated interest in testing new models for drug payment in Medicare Part B and Part D. CMS also continues to test alternative payment models with providers, such as the Oncology Care Model. These models provide financial incentives to providers who participate under which providers take on greater risk for the overall cost and quality of care. In addition, CMS recently finalized changes to Medicare payment to hospitals for Part B drugs acquired through the Federal 340B Drug Pricing Program but provide financial incentive for hospitals to use biosimilar products over the corresponding innovative products. CMS is also proposing changes to Medicare Part D and Medicare Advantage. These and/or other changes have the potential to impact prescribing and patient access to Amgen's therapies.

In the U.S. private sector, payers continue to institute cost reduction and containment measures that lower drug utilization and/or spending altogether and/or shift a greater portion of the costs to patients. Such measures include more limited benefit plan designs, higher patient co-pays or coinsurance obligations, limitations on patients' use of commercial manufacturer co-pay payment assistance programs (including through co-pay accumulator adjustment or maximization programs), higher-tier formulary placement that increases the level of patient out-of-pocket costs and/or stricter utilization management criteria before a patient may get access to a drug. In the specialty pharmacy sector, in which the majority of our sales for ENBREL and Repatha® occur, the use of such measures by Pharmacy Benefit Managers (PBMs) and insurers has continued to intensify which have limited Amgen product usage and sales. PBMs are third-party organizations tasked with administering prescription drug programs for large employers, health plans and government programs. Consolidation has resulted in a smaller number of PBMs and insurers overseeing a large portion of total covered lives in the United States. As a result, PBMs and insurers have greater market power and negotiating leverage to exclude drugs from their formularies in favor of competitor drugs or alternative treatments, and/or to mandate stricter utilization criteria. Formulary exclusion effectively encourages patients and providers to seek alternative treatments or pay 100% of the cost of a drug. Our experience with Repatha® underscores that utilization management requirements, including the burdensome administrative processes required of physicians to demonstrate and document that patients meet such requirements, continue to be a significant challenge for patients and physicians, limiting access for appropriate usage. Even when access is available, some patients abandon their prescriptions due to economic reasons. In highly competitive treatment markets such as

with ENBREL and Repatha[®], PBMs are also able to exert negotiating leverage by requiring incremental rebates from manufacturers in order to maintain their formulary position. A drug's inclusion and favorable positioning on formulary is essential to ensure patients have access.

In many countries outside the United States, government-sponsored healthcare systems are the primary payers for drugs and biologics. With increasing budgetary constraints, payers in many countries are applying a variety of measures to exert downward price pressure. These measures can include mandatory price controls, price referencing, therapeutic reference pricing, increases in mandates or incentives for generic substitution and biosimilar usage, and government-mandated price cuts. In this regard, many countries have Health Technology Assessment (HTA) organizations that use formal economic metrics such as cost-effectiveness to determine prices, coverage and reimbursement of new therapies, and these organizations are expanding in established and emerging markets. We expect that countries will continue to take aggressive actions to seek to reduce expenditures on drugs and biologics. Similarly, fiscal constraints may also impact the extent to which countries are willing to approve new and innovative therapies and/or allow access to new technologies.

The dynamics and developments discussed above serve to create pressure on the pricing and potential usage of our products, and the industry as a whole. We remain focused on delivering breakthrough treatments for unmet medical needs. Amgen is committed to working with the entire healthcare community to ensure continued innovation and to enable patient access to needed medicines. We do this by:

- investing billions of dollars annually in R&D;
- developing more affordable therapeutic choices in the form of high-quality and reliably-supplied biosimilars;
- pricing our medicines to reflect the value they provide;
- partnering with payers to share risk and accountability for health outcomes;
- providing patient support and education programs and helping patients in financial need access our medicines; and
- working with policymakers, patients and other stakeholders to establish a sustainable healthcare system with access to affordable care and where patients and their healthcare professionals are the primary decision makers.

See Item 1A. Risk Factors—*Our sales depend on coverage and reimbursement from third-party payers, and pricing and reimbursement pressures may affect our profitability* and Item 1A. Risk Factors—*Guidelines and recommendations published by various organizations can reduce the use of our products.*

Manufacturing, Distribution and Raw Materials

Manufacturing

We believe we are a leader in the manufacturing of biologics and that our manufacturing capabilities represent a competitive advantage. The products we manufacture consist of both biologics and small molecule drugs. The majority of our products are biologics that are produced in living cells and that are inherently complex due to naturally-occurring molecular variations. Highly specialized knowledge and extensive process and product characterization are required to transform laboratory-scale processes into reproducible commercial manufacturing processes. Further, our expertise in manufacturing of biologics positions us well for leadership in the global biosimilars market. For additional information regarding manufacturing facilities, see Item 2. Properties.

Our internal manufacturing network has the commercial production capabilities of bulk manufacturing, formulation, fill, finish and device assembly. These activities are performed within the United States and its territories in our Puerto Rico, Rhode Island and California facilities, as well as internationally in our Ireland, Netherlands and Singapore facilities. In addition, we utilize third-party contract manufacturers to supplement our commercial manufacturing requirements. We utilize these internal facilities and third-party contract manufacturers to develop similar capabilities in multiple geographic areas to mitigate potential supply impacts of the most important risks facing our supply chain.

In September 2017, Hurricane Maria made landfall on the island of Puerto Rico causing some damage to our facility in Juncos. Critical manufacturing areas of our facility were not significantly affected, and we have resumed our full manufacturing operations. Further recovery efforts on the island are ongoing. We have continued to provide an uninterrupted supply of medicines for patients around the world.

We manufacture products to support our clinical trials primarily at our California and Rhode Island facilities. We also utilize third-party contract manufacturers for certain clinical products.

See Item 1A. Risk Factors for a discussion of the factors that could adversely impact our manufacturing operations and the global supply of our products.

Distribution

We operate distribution centers in Kentucky, California and the Netherlands for worldwide distribution of the majority of our commercial and clinical products. We also use third-party distributors to supplement distribution of our products worldwide.

Other

In addition to the manufacturing and distribution activities noted above, our operations in the United States, the U.S. territory of Puerto Rico and the Netherlands include key manufacturing support functions, including quality control, process development, procurement, production scheduling and warehousing. Certain of those manufacturing and distribution activities are highly regulated by the FDA as well as other international regulatory agencies. See Government Regulation—Regulation in the United States—Regulation of Manufacturing Standards.

Manufacturing Initiatives

We have multiple ongoing initiatives that are designed to extend our manufacturing advantage by optimizing our manufacturing network and/or mitigating risks while continuing to ensure adequate supply of our products. In 2017, our new biologics manufacturing facility in Singapore was licensed by the FDA and EMA for certain commercial scale production. The Singapore facility was completed in approximately half the time typically required for conventional biomanufacturing equivalents. It utilizes a flexible and modular design that can be replicated in future facilities, enabling higher production and accessibility to patients around the world. The Singapore facility is fully reconfigurable, allowing the production of other products for worldwide supply. For example, in October 2017, we completed a second bulk process qualification campaign, which, if approved, would enable a second molecule to be manufactured at that facility. We also completed the construction of a second facility in Singapore and we are currently carrying out a qualification campaign.

See Item 1A. Risk Factors—*Manufacturing difficulties, disruptions or delays could limit supply of our products and limit our product sales.*

Raw Materials and Medical Devices

Certain raw materials, medical devices (including companion diagnostics) and components necessary for the commercial and/or clinical manufacturing of our products are provided by and are the proprietary products of unaffiliated third-party suppliers, certain of which may be our only sources for such materials. We currently attempt to manage the risk associated with such suppliers by inventory management, relationship management and evaluation of alternative sources when feasible. We also monitor the financial condition of certain suppliers and their ability to supply our needs. See Item 1A. Risk Factors—*We rely on third-party suppliers for certain of our raw materials, medical devices and components.*

We perform various procedures to help authenticate the source of raw materials, including intermediary materials used in the manufacture of our products, which include verification of the country of origin. The procedures are incorporated into the manufacturing processes we and our third-party contract manufacturers perform.

Government Regulation

Regulation by government authorities in the United States and other countries is a significant factor in the production and marketing of our products and our ongoing R&D activities. In order to clinically test, manufacture and market products for therapeutic use, we must satisfy mandatory procedures and safety and effectiveness standards established by various regulatory bodies. Compliance with these standards is complex and failure to comply with any of these standards can result in significant implications. See Item 1A. Risk Factors for a discussion of factors that can adversely impact our development and marketing of commercial products including global regulatory implications.

Regulation in the United States

In the United States, the Public Health Service Act, the Federal Food, Drug, and Cosmetic Act (FDCA) and the regulations promulgated thereunder, as well as other federal and state statutes and regulations govern, among other things, the production, research, development, testing, manufacture, quality control, labeling, storage, record keeping, approval, advertising and promotion, and distribution of our products, as well as the reporting of certain payments and other transfers of value to healthcare professionals and teaching hospitals.

Clinical Development and Product Approval. Drug development in our industry is complex, challenging and risky; and failure rates are high. Product development cycles are typically very long—approximately 10 to 15 years from discovery to market. A potential new medicine must undergo many years of preclinical and clinical testing to establish its safety and efficacy for use in humans at appropriate dosing levels and with an acceptable risk-benefit profile.

After laboratory analysis and preclinical testing in animals, we file an Investigational New Drug Application (IND) with the FDA to begin human testing. Typically, we undertake an FDA-designated three-phase human clinical testing program.

- In phase 1, we conduct small clinical trials to investigate the safety and proper dose ranges of our product candidates in a small number of human subjects.
- In phase 2, we conduct clinical trials to investigate side-effect profiles and the efficacy of our product candidates in a large number of patients who have the disease or condition under study.
- In phase 3, we conduct clinical trials to investigate the safety and efficacy of our product candidates in a large number of patients who have the disease or condition under study.

The FDA monitors the progress of each trial conducted under an IND and may, at its discretion, reevaluate, alter, suspend or terminate the testing based on the data accumulated to that point and the FDA's risk benefit assessment with regard to the patients enrolled in the trial. The results of preclinical and clinical trials are submitted to the FDA in the form of a BLA for biologic products or a New Drug Application for small molecule products. We are not permitted to market or promote a new product until the FDA has approved our marketing application.

Approval of Biosimilars. The ACA authorized the FDA to approve biosimilars via a separate, abbreviated pathway. The pathway allows sponsors of a biosimilar to seek and obtain regulatory approval based in part on the non-clinical and clinical trial data of an originator product to which the biosimilar has been demonstrated to be "highly similar" and to have no clinically meaningful differences in terms of safety, purity and potency. The relevance of demonstrating "similarity" is that in many cases, biosimilars can be brought to market without conducting the full suite of clinical trials typically required of originators, as risk-benefit has previously been established. In order to preserve incentives for future innovation, the law establishes a period of exclusivity for originators' products, which in general prohibits biosimilars from gaining FDA approval based in part on reliance on or reference to the originator's data in their application to the FDA for 12 years after FDA approval of the originator product. The law does not change the duration of patents granted on biologic products. The FDA has released a number of guidance documents as part of the implementation of the abbreviated approval pathway for biosimilars, some of which remain in draft form. As of the end of 2017, seven biosimilar applications have been approved by the FDA, including our products AMJEVITA™ and MVASI™, as well as competitors to our products ENBREL and NEUPOGEN®. A number of manufacturers have announced the filing of marketing applications to the FDA under the biosimilar pathway, some of which are for biosimilars of our products.

Regulation of Product Marketing and Promotion. The FDA regulates the marketing and promotion of products. Our product promotion for approved product indications must comply with the statutory standards of the FDCA and the FDA's implementing regulations and standards. The FDA's review of marketing and promotional activities encompasses, but is not limited to, direct-to-consumer advertising, healthcare provider-directed advertising and promotion, sales representative communications to healthcare professionals, promotional programming and promotional activities involving electronic media. The FDA may also review industry-sponsored scientific and educational activities that make representations regarding product safety or efficacy in a promotional context. The FDA may take enforcement action against a company for promoting unapproved uses of a product or for other violations of its advertising and labeling laws and regulations. Enforcement action may include product seizures, injunctions, civil or criminal penalties or regulatory letters, which may require corrective advertising or other corrective communications to healthcare professionals. Failure to comply with the FDA's regulations also can result in adverse publicity or increased scrutiny of company activities by the U.S. Congress or other legislators. Additionally, as described below, such failure may lead to additional liability under U.S. health care fraud and abuse laws.

Regulation of Manufacturing Standards. The FDA regulates and inspects equipment, facilities, laboratories and processes used in the manufacturing and testing of products prior to providing approval to market products. If after receiving approval from the FDA, we make a material change in manufacturing equipment, location or process, additional regulatory review may be required. We also must adhere to current Good Manufacturing Practice regulations and product-specific regulations enforced by the FDA through its facilities inspection program. The FDA conducts regular, periodic visits to re-inspect our equipment, facilities, laboratories and processes following an initial approval.

Regulation of Combination Products. Combination products are defined by the FDA to include products composed of two or more regulated components (e.g., a biologic and/or drug and a device). Biologics/Drugs and devices each have their own regulatory requirements, and combination products may have additional requirements. A number of our marketed products meet this definition and are regulated under this framework, and we expect that a number of our pipeline product candidates will be evaluated for regulatory approval under this framework as well.

Regulation Outside the United States

In the European Union (EU) countries as well as Switzerland, Canada, Australia and Japan, regulatory requirements and approval processes are similar in principle to those in the United States.

In the EU, there are currently two potential tracks for seeking marketing approval for a product which is not authorized in any Member State; a decentralized procedure and a centralized procedure. In the decentralized procedure, identical applications for marketing authorization are submitted simultaneously to the national regulatory agencies. Regulatory review is led by one Member State (the Reference Member State) and its assessment—based on safety, quality and efficacy—is reviewed and approved (assuming there are no concerns that the product poses a serious risk to public health) by the other Member States from which the applicant is seeking approval (the Concerned Member States). The decentralized procedure leads to a series of single national approvals in all relevant countries. In the centralized procedure, which is required of all products derived from biotechnology, a company submits a single MAA to the EMA, which conducts an evaluation of the dossier, drawing upon its scientific resources across Europe. If the drug product is proven to fulfill the requirements for quality, safety and efficacy, the EMA's CHMP adopts a positive opinion, which is transmitted to the EC for final decision on grant of the marketing authorization. While the EC generally follows the CHMP's opinion, it is not bound to do so. Subsequent commercialization is enabled by country-by-country reimbursement approval.

In the EU, biosimilars are approved under a specialized pathway of the centralized procedure. As with the U.S. pathway, applicants seek and obtain regulatory approval for a biosimilar once the data exclusivity period for the original reference product has expired relying in part on the data submitted for the originator product together with data evidencing that the biosimilar is “highly similar” in terms of quality, safety and efficacy to the original reference product authorized in the European Economic Area.

As a result of the vote by the United Kingdom (UK) to leave the EU in March 2019, the EMA announced on November 20, 2017 that it will relocate its headquarters from London to Amsterdam by March 30, 2019. In addition to uncertainty regarding the supervision and regulation of our products in the UK, it is unclear what impact the EMA move will have on the EU marketing approval process.

Other countries such as Russia, Turkey and those in Latin America and the Middle East have review processes and data requirements similar to those of the EU, and in some cases can rely on prior marketing approval from U.S. or EU regulatory authorities. The regulatory process in these countries may include manufacturing/testing facility inspections, testing of drug product upon importation and other domestic requirements.

In Asia Pacific, a number of countries such as China, Japan, South Korea and Taiwan may require local clinical trial data for bridging purposes as part of the drug registration process in addition to global clinical trials, which can add to overall drug development and registration timelines. In most of the Asian markets, registration timelines depend on marketing approval in the United States or the EU. In some markets in Asia, such as China, Thailand and Indonesia, the regulatory timelines can be less predictable. The regulatory process may also include manufacturing/testing facility inspections, testing of drug product upon importation and other domestic requirements. Countries such as Australia and Japan have more mature systems that would allow for submissions in more competitive timeframes. Regarding biosimilars, several of these countries have pathways to register biosimilars (e.g., South Korea, India, Australia, Singapore and Taiwan) and biosimilar products are already present on the markets (e.g., Australia and South Korea).

In some countries, such as Japan and those in the EU, medical devices may be subject to regulatory regimes whereby the manufacturer must establish that its medical device conforms to essential requirements set out in the law for the particular device category. For example, in the EU, with limited exceptions, medical devices placed on the market must bear the Conformité Européenne marking to indicate their conformity with legal requirements.

Post-approval Phase

After approval, we continue to monitor adverse events and product complaints reported following the use of our products through routine post-marketing surveillance and studies when applicable. We report such events to the appropriate regulatory agencies, as required per local regulations for individual cases and aggregate reports. We proactively monitor (according to good pharmacovigilance practices) and ensure implementation of signal detection, assessment and the communication of adverse events that may be associated with the use of our products. We also proactively monitor product complaints through our quality systems, which includes assessing our drug delivery devices for device complaints, adverse events and malfunctions. We may also be required by regulatory agencies to conduct further clinical trials on our marketed products as a condition of their approval or to provide additional information on safety and efficacy. Health authorities, including the FDA, have authority to mandate labeling changes to products at any point in a product's lifecycle based on new safety information or as part of an evolving label change to a particular class of products.

Health authorities, including the FDA, also have the authority, before or after approval, to require companies to implement a risk management program for a product to ensure that the benefits of the drug outweigh the risks. Each risk management program is unique and varies depending on the specific factors required. In the United States, a risk management program is known as a risk evaluation and mitigation strategy (REMS) and we currently have REMS for Prolia®, Nplate® and BLINCYTO®.

Other Regulation

We are also subject to various laws pertaining to healthcare “fraud and abuse,” including anti-kickback laws and false claims laws. Anti-kickback laws make it illegal to solicit, offer, receive or pay any remuneration in exchange for or to induce the referral of business, including the purchase or prescription of a particular drug that is reimbursed by a state or federal program. False claims laws prohibit knowingly and willingly presenting, or causing to be presented for payment to third-party payers (including Medicare and Medicaid), any claims for reimbursed drugs or services that are false or fraudulent, claims for items or services not provided as claimed or claims for medically unnecessary items or services. Violations of fraud and abuse laws may be punishable by criminal and/or civil sanctions, including fines and civil monetary penalties, as well as by the possibility of exclusion from federal healthcare programs (including Medicare and Medicaid). Liability under the false claims laws may also arise when a violation of certain laws or regulations related to the underlying products (e.g., violations regarding improper promotional activity or unlawful payments) contributes to the submission of a false claim.

In 2012, Amgen announced it had finalized a settlement agreement with the U.S. government and various other parties regarding allegations that Amgen’s promotional, contracting, sales and marketing activities and arrangements caused the submission of various false claims under the Federal Civil False Claims Act and various State False Claims Acts. In connection with entering into the settlement agreement, Amgen also entered into a corporate integrity agreement with the Office of Inspector General (OIG) of the U.S. Department of Health and Human Services that requires Amgen to maintain its corporate compliance program and to undertake a set of defined corporate integrity obligations for a period of five years. Although the corporate integrity agreement term ended in December 2017, certain of the corporate integrity agreement’s reporting obligations to OIG continue into 2018. Due to the breadth of the statutory provisions and the absence of guidance in the form of regulations or court decisions addressing some of our practices, it is possible that in the future our practices might be further challenged under anti-kickback or similar laws.

Additionally, the U.S. Foreign Corrupt Practices Act (FCPA) prohibits U.S. corporations and their representatives from offering, promising, authorizing or making payments to any foreign government official, government staff member, political party or political candidate in an attempt to obtain or retain business abroad. The scope of the FCPA arguably includes interactions with certain healthcare professionals in many countries. Other countries have enacted similar anti-corruption laws and/or regulations.

Our business has been and will continue to be subject to various other U.S. and foreign laws, rules and/or regulations.

Research and Development and Selected Product Candidates

We focus our R&D on novel human therapeutics for the treatment of serious illness primarily in the areas of oncology/hematology, cardiovascular disease, inflammation, bone health, nephrology and neuroscience. We capitalize on our strength in human genetics, novel biology and protein engineering. We leverage our biologic expertise and take a modality-independent approach to R&D. We use cutting-edge science and technology to study subtle biological mechanisms in search of therapies that will improve the lives of those who suffer from diseases. Our discovery research programs may therefore yield targets that lead to the development of human therapeutics delivered as large molecules, small molecules, other combination modalities or new modalities. Leveraging two decades of research at deCODE, a global leader in analyzing the human genome, we are reshaping our portfolio and increasingly focusing efforts on targets validated in humans. Human genetic validation is used whenever possible in order to enhance the likelihood of success. For the years ended December 31, 2017, 2016 and 2015, our R&D expenses were \$3.6 billion, \$3.8 billion and \$4.1 billion, respectively.

We have major R&D centers in Thousand Oaks and San Francisco, California, Cambridge, Massachusetts, Iceland and in the United Kingdom, as well as smaller research centers and development facilities globally. See Item 2. Properties.

Our clinical trial activities are conducted by both our internal staff and third-party contract clinical trial service providers. To increase the number of patients available for enrollment in our clinical trials, we have opened clinical sites and will continue opening clinical sites and enrolling patients in a number of geographic locations. See Government Regulation—Regulation in the United States—Clinical Development and Product Approval for a discussion of government regulation over clinical development. Also see Item 1A. Risk Factors—*We must conduct clinical trials in humans before we commercialize and sell any of our product candidates or existing products for new indications.*

Some of our competitors are actively engaged in R&D in areas in which we have products or in which we are developing product candidates or new indications for existing products. For example, we compete with other clinical trials for eligible patients, which may limit the number of available patients who meet the criteria for certain clinical trials. The competitive marketplace for our product candidates is significantly dependent on the timing of entry into the market. Early entry may have important advantages

in gaining product acceptance, thereby contributing to a product's eventual success and profitability. Accordingly, we expect that in some cases, the relative speed with which we can develop products, complete clinical testing, receive regulatory approval and supply commercial quantities of a product to the market will be important to our competitive position.

In addition to product candidates and marketed products generated from our internal R&D efforts, we acquire companies, acquire and license certain product and R&D technology rights and establish R&D arrangements with third parties to enhance our strategic position within our industry by strengthening and diversifying our R&D capabilities, product pipeline and marketed product base. In pursuing these R&D arrangements and licensing or acquisition activities, we face competition from other pharmaceutical and biotechnology companies that also seek to license or acquire technologies, product candidates or marketed products from those entities performing the R&D.

The following table shows a selection of certain of our product candidates by phase of development in our therapeutic areas of focus as of February 12, 2018, unless otherwise indicated. Additional product candidate information can be found on our website at www.amgen.com. (The website address is not intended to function as a hyperlink, and the information contained on our website is not intended to be a part of this filing.) The information in this section does not include other, non-registrational clinical trials that we may conduct for purposes other than for submission to regulatory agencies for their approval of a new product indication. We may conduct non-registrational clinical trials for various reasons including to evaluate real-world outcomes or to collect additional safety information with the use of our products. In addition, the table does not include the biosimilar products we are developing, which are discussed later in this section.

| Molecule | Disease/condition |
|-------------------------|--|
| Phase 3 Programs | |
| Aimovig™ | Migraine prevention |
| Aranesp® | Myelodysplastic syndromes |
| BLINCYTO® | ALL |
| ENBREL | Psoriatic arthritis; Rheumatoid arthritis remission |
| EVENITY™ | Postmenopausal osteoporosis; Male osteoporosis |
| IMLYGIC® | Metastatic melanoma |
| KYPROLIS® | Multiple myeloma |
| Omecamtiv mecarbil | Chronic heart failure |
| Prolia® | Glucocorticoid-induced osteoporosis |
| Tezepelumab | Asthma |
| AMG 520 / CNP520 | Alzheimer's disease |
| Phase 2 Programs | |
| BLINCYTO® | Diffuse Large B-Cell Lymphoma (DLBCL) |
| Tezepelumab | Atopic dermatitis |
| AMG 301 | Migraine prevention |
| AMG 557 | Primary Sjögren's syndrome |
| AMG 714 | Celiac disease |
| Phase 1 Programs | |
| IMLYGIC® | Various cancer types |
| KYPROLIS® | Small-cell lung cancer |
| Oprozomib | Multiple myeloma |
| AMG 176 | Various cancer types |
| AMG 224 | Multiple myeloma |
| AMG 330 | Acute myeloid leukemia |
| AMG 420 | Multiple myeloma |
| AMG 570 | Systemic lupus erythematosus |
| AMG 592 | Inflammatory diseases |
| AMG 596 | Glioblastoma |
| AMG 598 | Obesity |
| AMG 673 | Acute myeloid leukemia |
| AMG 701 | Multiple myeloma |
| AMG 757 | Small-cell lung cancer |
| AMG 820 | Various cancer types |
| AMG 966 | Inflammatory bowel diseases (Crohn's and ulcerative colitis) |
| AMG 986 | Heart failure |

Phase 3 Clinical trials investigate the safety and efficacy of product candidates in a large number of patients who have the disease or condition under study; typically performed with registrational intent.

Phase 2 Clinical trials investigate side effect profiles and efficacy of product candidates in a large number of patients who have the disease or condition under study.

Phase 1 Clinical trials investigate the safety and proper dose ranges of product candidates in a small number of human subjects.

Phase 3 Product Candidate Program Changes

As of February 13, 2017, we had 15 phase 3 programs. As of February 12, 2018, we had 13 phase 3 programs, as three programs were approved, two programs advanced into phase 3 and one program concluded. These changes are set forth in the following table.

| Molecule | Disease/condition | Program change |
|------------------|--|---|
| Repatha® | Hyperlipidemia | sBLA approved by FDA |
| XGEVA® | Cancer-related bone damage in patients with multiple myeloma | sBLA approved by FDA |
| Vectibix® | Metastatic colorectal cancer for patients with wild-type RAS | sBLA approved by FDA |
| AMG 520 / CNP520 | Alzheimer's disease | Advanced to phase 3 |
| Tezepelumab | Severe uncontrolled asthma | Advanced to phase 3 |
| XGEVA® | Delay or prevention of bone metastases in breast cancer | Concluded—study did not meet its primary endpoint |

Phase 3 Product Candidate Patent Information

The following table describes our outstanding composition of matter patents that have been issued thus far for our product candidates in phase 3 development that have yet to be approved for any indication. Patents for products already approved for one or more indications but currently undergoing phase 3 clinical trials for additional indications are previously described. See Marketing, Distribution and Selected Marketed Products—Patents.

| Molecule | Territory | General subject matter | Estimated expiration* |
|------------------------|-----------|------------------------|-----------------------|
| Aimovig™ (erenumab) | U.S. | Polypeptides | 2031 |
| | Europe | Polypeptides | 2029 |
| EVENITY™ (romosozumab) | U.S. | Polypeptides | 2026 |
| | Europe | Polypeptides | 2026 |
| Omecamtiv mecarbil | U.S. | Compound | 2027 |
| Tezepelumab | U.S. | Polypeptides | 2029 |
| | Europe | Polypeptides | 2028 |
| AMG 520 / CNP520 | U.S. | Compound | 2032 |
| | Europe | Compound | 2032 |

* Patent expiration estimates are based on issued patents, which may be challenged, invalidated, or circumvented by competitors. The patent expiration estimates do not include any term adjustments, extensions or supplemental protection certificates that may be obtained in the future and extend these dates. Corresponding patent applications are pending in other jurisdictions. Additional patents may be filed or issued and may provide additional exclusivity for the product candidate or its use.

Phase 3 and 2 Program Descriptions

The following text provides additional information about selected product candidates that have advanced into human clinical trials.

Aimovig™

Aimovig™ is a human monoclonal antibody that inhibits the receptor for calcitonin gene-related peptide. It is being evaluated for the prevention of migraine. Aimovig™ is being developed jointly with Novartis.

In July 2017, we announced that the FDA accepted for review the BLA for Aimovig™ for the prevention of migraine in patients experiencing four or more migraine days per month. The FDA has set a PDUFA target action date of May 17, 2018.

In January 2018, a phase 3b study met its primary endpoint and all secondary endpoints in patients with episodic migraine who had experienced two to four previous preventive treatment failures due to lack of efficacy or intolerable side effects.

Aranesp®

Aranesp® is a recombinant human protein agonist of the erythropoietin receptor. It is being investigated as a treatment for low risk myelodysplastic syndromes.

In October 2017, we announced that a phase 3 post-marketing requirement study to evaluate the safety and efficacy of Aranesp[®] in anemic patients with advanced non-small cell lung cancer receiving multi-cycle chemotherapy successfully met its primary endpoint of non-inferiority in overall survival compared to placebo, with no new safety findings.

BLINCYTO[®]

BLINCYTO[®] is an anti-CD19 x anti-CD3 (BiTE[®]) bispecific antibody construct.

A phase 2/3 study in patients with relapsed or refractory DLBCL is ongoing. In December 2017, we announced that the FDA accepted for priority review the sBLA for the treatment of minimal residual disease in patients with ALL. The PDUFA target action date is March 29, 2018.

In July 2017, we announced that the FDA approved the sBLA for BLINCYTO[®] to include overall survival data from the phase 3 TOWER study. The approval converts BLINCYTO[®]'s accelerated approval to a full approval. The approval expands the indication of BLINCYTO[®] for the treatment of relapsed or refractory B-cell precursor ALL in adults and children.

In February 2018, we announced that the CHMP of the EMA adopted a positive opinion recommending a label variation for BLINCYTO[®] to include overall survival data from the phase 3 TOWER study supporting the conversion of the conditional marketing authorization to a full marketing authorization in adult patients with Philadelphia chromosome-negative relapsed or refractory B-cell precursor ALL.

ENBREL

ENBREL is a fusion protein that inhibits tumor necrosis factor.

Phase 3 studies to evaluate ENBREL as a monotherapy for psoriatic arthritis treatment and as a monotherapy in maintaining remission in rheumatoid arthritis are ongoing.

EVENTITY[™]

EVENTITY[™] is a humanized monoclonal antibody that inhibits the action of sclerostin. It is being evaluated as a treatment for osteoporosis. EVENTITY[™] is being developed in collaboration with UCB.

In May 2017, we and UCB announced that the phase 3 ARCH study in postmenopausal women with osteoporosis met both primary endpoints and the key secondary endpoint. An imbalance in positively adjudicated cardiovascular serious adverse events was observed in the study as a new safety signal.

In July 2017, we and UCB announced that the FDA issued a Complete Response Letter for the BLA for EVENTITY[™] as a treatment for postmenopausal women with osteoporosis. The resubmission will include data from the phase 3 ARCH study and select data from the phase 3 BRIDGE study evaluating EVENTITY[™] in men with osteoporosis, in addition to the phase 3 FRAME study. We are currently evaluating all EVENTITY[™] data and will be working in close collaboration with the FDA.

In January 2018, we and UCB announced that the EMA accepted the MAA for EVENTITY[™] for the treatment of osteoporosis in postmenopausal women and in men at increased risk of fracture.

IMLYGIC[®]

IMLYGIC[®] is an oncolytic immunotherapy derived from herpes simplex virus type 1.

A phase 1b/3 study to evaluate IMLYGIC[®] in combination with Merck & Company, Inc.'s (Merck's) anti-PD-1 therapy, KEYTRUDA[®] (pembrolizumab), in patients with mid- to late-stage metastatic melanoma is ongoing.

KYPROLIS[®]

KYPROLIS[®] is a proteasome inhibitor.

In July 2017, we announced positive results from the final analysis of the phase 3 ASPIRE study. The study met the key secondary endpoint of overall survival, demonstrating that KYPROLIS[®], lenalidomide and dexamethasone reduced the risk of death by 21% over lenalidomide and dexamethasone alone. In December 2017, we submitted a sNDA to the FDA and a variation to the marketing authorization to the EMA to include the overall survival data from the ASPIRE study in the product label.

In October 2017, we announced top-line results of the phase 3 ARROW study, which showed KYPROLIS[®] administered once-weekly at the 70 mg/m² dose with dexamethasone allowed relapsed and refractory multiple myeloma patients to live 3.6 months longer without their disease worsening than KYPROLIS[®] administered twice-weekly at the 27 mg/m² dose with dexamethasone. The overall safety profile of the once-weekly KYPROLIS[®] regimen was comparable to that of the twice-weekly regimen.

In January 2018, we announced that the CHMP of the EMA has adopted a positive opinion recommending a label variation for KYPROLIS® to include updated overall survival data from the phase 3 head-to-head ENDEAVOR study in patients with relapsed or refractory multiple myeloma. The ENDEAVOR study demonstrated that KYPROLIS® and dexamethasone reduced the risk of death by 21 percent, and increased overall survival by 7.6 months versus VELCADE® and dexamethasone.

A phase 3 study comparing carfilzomib, dexamethasone, and daratumumab to carfilzomib and dexamethasone for the treatment of patients with relapsed or refractory multiple myeloma is ongoing.

Omecamtiv mecarbil

Omecamtiv mecarbil is a small-molecule activator of cardiac myosin. It is being evaluated for the treatment of chronic heart failure. Omecamtiv mecarbil is being developed by Amgen in collaboration with Cytokinetics, Inc. and in collaboration with Servier for certain territories.

A phase 3 cardiovascular outcomes study for the treatment of chronic heart failure is ongoing.

Prolia®

Prolia® is a human monoclonal antibody that inhibits RANKL. It is being investigated for the treatment of glucocorticoid-induced osteoporosis.

In October 2017, we announced that the FDA accepted for review the sBLA for the treatment of patients with glucocorticoid-induced osteoporosis. The FDA has set a PDUFA target action date of May 28, 2018.

Tezepelumab (formerly AMG 157)

Tezepelumab is a human monoclonal antibody that inhibits the action of thymic stromal lymphopoietin. It is being evaluated as a treatment for asthma in an ongoing phase 3 study, as well as atopic dermatitis. Tezepelumab is being jointly developed in collaboration with AstraZeneca plc (AstraZeneca).

AMG 301

AMG 301 is a human monoclonal antibody that inhibits the pituitary adenylate cyclase-activating polypeptide type 1 (PAC1) receptor. It is being investigated for migraine prevention. AMG 301 is being jointly developed in collaboration with Novartis.

AMG 520 / CNP520

AMG 520 / CNP520 is a small molecule inhibitor of beta-site amyloid precursor protein-cleaving enzyme-1 (BACE). It is being evaluated for the prevention of Alzheimer's disease, with phase 3 studies ongoing. AMG 520 / CNP520 is being jointly developed in collaboration with Novartis.

AMG 557

AMG 557 is a human monoclonal antibody that inhibits the action of the ICOS ligand. It is being investigated as a treatment for primary Sjögren's syndrome. AMG 557 is being jointly developed in collaboration with AstraZeneca.

AMG 714

AMG 714 is a human monoclonal antibody that binds to Interleukin-15. It is being investigated for the treatment of celiac disease. In November 2017, Amgen reacquired the AMG 714 program from Celimmune LLC.

Amgen Development of Biosimilars

We continue to develop and commercialize biosimilar medicines. Our biosimilar product candidates are in varying stages of commercialization and clinical development as described in the following table:

| Program | Reference product | Status |
|-----------------------|----------------------------------|--|
| AMJEVITA™ / AMGEVITA™ | adalimumab (HUMIRA®) | Approved by FDA and EC across all eligible indications of reference product |
| MVASI™* | bevacizumab (Avastin®) | Approved by FDA and EC across all eligible indications of reference product |
| ABP 710 | infliximab (REMICADE®) | Phase 3 rheumatoid arthritis study ongoing |
| ABP 798* | rituximab (Rituxan® / Mabthera®) | Phase 3 rheumatoid arthritis study ongoing Phase 3 non-Hodgkin's lymphoma study ongoing |
| ABP 959 | eculizumab (Soliris®) | Phase 1 completed |
| ABP 980* | trastuzumab (Herceptin®) | BLA submitted to FDA; MAA submitted to EMA |

* Developed in collaboration with Allergan

Business Relationships

From time to time, we enter into business relationships, including joint ventures and collaborative arrangements, for the R&D, manufacture and/or commercialization of products and/or product candidates. In addition, we also acquire product and R&D technology rights and establish R&D collaborations with third parties to enhance our strategic position within our industry by strengthening and diversifying our R&D capabilities, product pipeline and marketed product base. These arrangements generally provide for non-refundable, upfront license fees, development and commercial-performance milestone payments, cost sharing, royalty payments and/or profit sharing. The activities under these collaboration agreements are performed with no guarantee of either technological or commercial success, and each is unique in nature.

Trade secret protection for our unpatented confidential and proprietary information is important to us. To protect our trade secrets, we generally require counterparties to execute confidentiality agreements upon the commencement of the business relationship with us. However, others could either develop independently the same or similar information or unlawfully obtain access to our information.

Kirin-Amgen, Inc.

On October 30, 2017, we announced that we agreed to acquire the remaining 50% ownership interest of Kirin-Amgen, Inc. (K-A) from Kirin Holdings Company, Limited (Kirin). We completed the share acquisition during the first quarter of 2018, making K-A a wholly owned subsidiary of Amgen. Prior to the closing of the share acquisition, K-A was a 50-50 joint venture with Kirin. K-A develops and then licenses all product rights which have been transferred from Amgen and Kirin. See Part IV—Note 21, Subsequent event, to the Consolidated Financial Statements.

K-A has given us exclusive licenses to manufacture and market: (i) granulocyte colony-stimulating factor (G-CSF) and pegfilgrastim in the United States, Europe, Canada, Australia, New Zealand, all Central American, South American, Middle Eastern and African countries and certain countries in Asia; (ii) darbepoetin alfa and romiplostim in the United States, Europe, Canada, Australia, New Zealand, Mexico, all Central and South American countries and certain countries in Central Asia, Africa and the Middle East; and (iii) recombinant human erythropoietin in the United States. We currently market pegfilgrastim, G-CSF, darbepoetin alfa, recombinant human erythropoietin and romiplostim under the brand names Neulasta[®], NEUPOGEN[®]/GRANULOKINE[®], Aranesp[®], EPOGEN[®] and Nplate[®], respectively. Under these agreements, Amgen pays K-A royalties based on product sales. In addition, Amgen also receives payments from K-A for milestones earned and for conducting certain R&D activities on its behalf.

K-A has also given Kirin exclusive licenses to manufacture and market: (i) G-CSF and pegfilgrastim in Japan, Taiwan and South Korea; (ii) darbepoetin alfa, romiplostim and brodalumab in Japan, China, Taiwan, South Korea and in certain other countries and/or regions in Asia; and (iii) recombinant human erythropoietin in Japan. K-A also gave Kirin and Amgen co-exclusive licenses to manufacture and market G-CSF, pegfilgrastim and recombinant human erythropoietin in China, which Amgen subsequently assigned to Kirin, and as a result, Kirin now exclusively manufactures and markets G-CSF and recombinant human erythropoietin in China. Kirin markets G-CSF, pegfilgrastim, darbepoetin alfa, romiplostim, recombinant human erythropoietin and brodalumab under the brand names GRAN[®]/Grasin[®], Peglasta[®]/Neulasta[®]/G-Lasta[®], NESP[®]/Aranesp[®], ROMIPLATE[®], ESPO[®] and LUMICEF[®], respectively. Under these agreements, Kirin pays K-A royalties based on product sales. In addition, Kirin also receives payments from K-A for conducting certain R&D activities on its behalf.

K-A has also given J&J exclusive licenses to manufacture and market recombinant human erythropoietin for all geographic areas of the world outside the United States, China and Japan. Under this agreement, J&J pays royalties to K-A based on product sales. See Part IV—Note 8, Related party transactions, to the Consolidated Financial Statements.

Novartis

In April 2017, we expanded our existing migraine collaboration with Novartis. In the United States, Amgen and Novartis will jointly develop and collaborate on the commercialization of Aimovig[™]. Amgen, as the principal, will recognize product sales of Aimovig[™] in the United States, will share U.S. commercialization costs with Novartis and will pay Novartis a significant royalty on net sales in the United States. Novartis holds global co-development rights and exclusive commercial rights outside the United States and Japan for Aimovig[™] and other specified migraine programs. Novartis will pay Amgen double-digit royalties on net sales of the products in the Novartis exclusive territories. Novartis will fund a portion of global R&D expenses. Novartis will also make payments to Amgen that could collectively amount to approximately \$400 million if certain regulatory events occur and commercial thresholds are achieved with respect to Aimovig[™] in the United States. Amgen will manufacture and supply Aimovig[™] worldwide.

Pfizer Inc.

The co-promotion term of our ENBREL collaboration agreement with Pfizer Inc. (Pfizer) in the United States and Canada expired on October 31, 2013. Under this agreement, we paid Pfizer a profit share until October 31, 2013, and residual royalties from November 1, 2013 to October 31, 2016, which were significantly less than the profit share payments. In 2015 and 2016, the residual royalty payments ranged from 11% to 10% of annual net ENBREL sales in the United States and Canada. Effective November 1, 2016, there are no further royalty payments.

UCB

We are in a collaboration with UCB for the development and commercialization of EVENITY™. In 2016, we amended the commercialization rights and responsibilities of the parties. Under the amended agreement, we have the rights to commercialize EVENITY™ for all indications in the United States, Japan and Hong Kong. UCB has the rights for Europe, China and Brazil. The rest of the countries have been allocated to Amgen. Generally, development costs and future worldwide commercialization profits and losses related to the collaboration after accounting for expenses are shared equally.

Bayer HealthCare Pharmaceuticals Inc.

We are in a collaboration with Bayer HealthCare Pharmaceuticals Inc. (Bayer) to jointly develop and commercialize Nexavar® (sorafenib). In 2015, we amended the terms of our collaboration agreement with Bayer, which terminated the co-promotion agreement in the United States, and transferred all U.S. operational responsibilities to Bayer, including commercial and medical affairs activities. Prior to the termination of the co-promotion agreement, we co-promoted Nexavar® with Bayer and shared equally in the profits in the United States. In lieu of this profit share, Bayer now pays us a royalty on U.S. sales of Nexavar® at a percentage rate in the high 30s. Outside of the United States, excluding Japan, Bayer manages all commercialization activities and incurs all of the sales and marketing expenditures and mutually agreed R&D expenses, and we reimburse Bayer for half of those expenditures. In all countries outside of the United States, except Japan, we receive 50% of net profits on sales of Nexavar® after deducting certain Bayer-related costs. The rights to develop and market Nexavar® in Japan are reserved to Bayer.

DaVita Inc.

In January 2017, we entered into a six-year supply agreement with DaVita Inc. (DaVita), which superseded the previously existing seven-year supply agreement that commenced in 2012. Pursuant to the 2017 agreement, we supply EPOGEN® and Aranesp® in amounts necessary to meet specified annual percentages of DaVita's and its affiliates' requirements for erythropoiesis-stimulating agents (ESAs) used in providing dialysis services in the United States and Puerto Rico. Such percentage varies during the term of the agreement, but in each year is at least 90%. The agreement expires in 2022. The agreement may be terminated by either party before expiration of its term in the event of certain breaches of the agreement by the other party.

Human Resources

As of December 31, 2017, Amgen had approximately 20,800 staff members. We consider our staff relations to be good.

Executive Officers of the Registrant

The executive officers of the Company as of February 7, 2018, are set forth below.

Mr. Robert A. Bradway, age 55, has served as a director of the Company since October 2011 and Chairman of the Board of Directors since 2013. Mr. Bradway has been the Company's President since 2010 and Chief Executive Officer since 2012. From 2010 to 2012, Mr. Bradway served as the Company's President and Chief Operating Officer. Mr. Bradway joined the Company in 2006 as Vice President, Operations Strategy and served as Executive Vice President and Chief Financial Officer from 2007 to 2010. Prior to joining the Company, he was a Managing Director at Morgan Stanley in London where, beginning in 2001, he had responsibility for the firm's banking department and corporate finance activities in Europe. Mr. Bradway has been a director of The Boeing Company, an aerospace company and manufacturer of commercial airplanes, defense, space and securities systems, since 2016. He has served on the board of trustees of the University of Southern California since 2014, and on the advisory board of the Leonard D. Schaeffer Center for Health Policy and Economics at that university since 2012. From 2011 to May 2017, Mr. Bradway was a director of Norfolk Southern Corporation, a transportation company.

Mr. Jonathan P. Graham, age 57, became Senior Vice President, General Counsel and Secretary in 2015. From 2006 to 2015, Mr. Graham was Senior Vice President and General Counsel at Danaher Corporation. From 2004 to 2006, Mr. Graham was Vice President, Litigation and Legal Policy at General Electric Company (GE). Prior to GE, Mr. Graham was a partner at Williams & Connolly LLP.

Dr. Sean E. Harper, age 55, became Executive Vice President, Research and Development in 2012. Dr. Harper joined the Company in 2002, and has held leadership roles in early development, medical sciences and global regulatory and safety. Dr. Harper served as Senior Vice President, Global Development and Corporate Chief Medical Officer from 2007 to 2012. Prior to joining the Company, Dr. Harper worked for five years at Merck Research Laboratories.

Mr. Anthony C. Hooper, age 63, became Executive Vice President, Global Commercial Operations in 2011. From 2010 to 2011, Mr. Hooper was Senior Vice President, Commercial Operations and President, U.S., Japan and Intercontinental of Bristol-Myers Squibb Company (BMS). From 2009 to 2010, Mr. Hooper was President, Americas of BMS. From 2004 to 2009, Mr. Hooper was President, U.S. Pharmaceuticals, Worldwide Pharmaceuticals Group, a division of BMS. Prior to this, Mr. Hooper held various senior leadership positions at BMS. Prior to joining BMS, Mr. Hooper was Assistant Vice President of Global Marketing for Wyeth Laboratories.

Ms. Lori A. Johnston, age 53, became Senior Vice President in 2016. From 2012 to 2016, Ms. Johnston was Executive Vice President and Chief Administrative Officer of Celanese Corporation. From 2006 to 2012, Ms. Johnston served in a series of progressive leadership roles at Amgen, with her last position being Vice President, Human Resources. Prior to joining the Company, Ms. Johnston held human resources and other positions at Dell Inc.

Mr. David W. Meline, age 60, became Executive Vice President and Chief Financial Officer in 2014. From 2011 to 2014, Mr. Meline served as Senior Vice President and Chief Financial Officer at 3M Company (3M). From 2008 to 2011, Mr. Meline served as Vice President, Corporate Controller and Chief Accounting Officer of 3M. Prior to 2008, Mr. Meline served in a variety of senior leadership roles for General Motors Company for over 20 years, with his last position being Vice President and Chief Financial Officer, North America. Mr. Meline has been a director of ABB Ltd., a global industrial technology company based in Switzerland, since 2016, serving as a member of the Finance, Audit and Compliance Committee. Mr. Meline was a director of TRW Automotive Holdings, Corp., a supplier of automotive systems, modules and components, from 2014 until its acquisition by ZF Friedrichshafen AG in 2015.

Ms. Cynthia M. Patton, age 56, became Senior Vice President and Chief Compliance Officer in 2012. Ms. Patton joined the Company in 2005. From 2005 to 2010, Ms. Patton was Associate General Counsel. From 2010 to 2012, Ms. Patton was Vice President, Law. Previously, Ms. Patton served as Senior Vice President, General Counsel and Secretary of SCAN Health Plan from 1999 to 2005.

Mr. David A. Piacquad, age 61, became Senior Vice President, Business Development in 2014. Mr. Piacquad joined the Company in 2010 and, until 2014, served as Vice President, Strategy and Corporate Development. From 2014 to 2014, Mr. Piacquad served as Vice President, Business Development. Prior to joining the Company, from 2009 to 2010, Mr. Piacquad was Principal of David A. Piacquad Consulting LLC. From 2006 to 2009, Mr. Piacquad served as Senior Vice President, Business Development and Licensing for Schering-Plough Corporation. Prior to Schering-Plough, Mr. Piacquad served in a series of leadership roles in finance and business development at J&J, with his last position being Vice President, Ventures and Business Development.

Mr. Esteban Santos, age 50, became Executive Vice President, Operations in 2016. Mr. Santos joined the Company in 2007 as Executive Director, Manufacturing Technologies. From 2008 to 2013, Mr. Santos held a number of Vice President roles at the Company in engineering, manufacturing, site operations and drug product. From 2013 to 2016, Mr. Santos was Senior Vice President, Manufacturing. Prior to joining the Company, Mr. Santos served as Site General Manager for J&J's Cordis operation in Puerto Rico. Prior to J&J, Mr. Santos held several management positions in GE's industrial and transportation businesses.

Geographic Area Financial Information

For financial information concerning the geographic areas in which we operate, see Part IV—Note 19, Segment information—Geographic information, to the Consolidated Financial Statements.

Investor Information

Financial and other information about us is available on our website at www.amgen.com. We make available on our website, free of charge, copies of our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, current reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after we electronically file such material with, or furnish it to, the U.S. Securities and Exchange Commission (SEC). In addition, we have previously filed registration statements and other documents with the SEC. Any document we file may be inspected, without charge, at the SEC's public reference room at 100 F Street NE, Washington, DC 20549, or at the SEC's website at www.sec.gov. (These website addresses are not intended to function as hyperlinks, and the information contained in our website and in the SEC's website is not intended to be a part of this filing.) Information related to the operation of the SEC's public reference room may be obtained by calling the SEC at 800-SEC-0330.

Item 1A. RISK FACTORS

This report and other documents we file with the SEC contain forward-looking statements that are based on current expectations, estimates, forecasts and projections about us, our future performance, our business, our beliefs and our management's assumptions. The statements are not guarantees of future performance and involve certain risks, uncertainties and assumptions that are difficult to predict. You should carefully consider the risks and uncertainties our business faces. The risks described below are not the only ones we face. Our business is also subject to the risks that affect many other companies, such as employment relations, general economic conditions, geopolitical events and international operations. Further, additional risks not currently known to us or that we currently believe are immaterial may in the future materially and adversely affect our business, operations, liquidity and stock price.

Our sales depend on coverage and reimbursement from third-party payers, and pricing and reimbursement pressures may affect our profitability.

Sales of our products depend on the availability and extent of coverage and reimbursement from third-party payers, including government healthcare programs and private insurance plans. Governments and private payers continue to pursue aggressive initiatives to contain costs and manage drug utilization and are increasingly focused on the effectiveness, benefits and costs of similar treatments, which could result in lower reimbursement rates for our products or narrower populations for whom our products will be reimbursed by payers. Intense public scrutiny of the price of drugs and other healthcare costs continues and greater focus on pricing and price increases may limit our ability to set or increase the price of our products based on their value, which could have a material adverse effect on our product sales, business and results of operations.

A substantial portion of our U.S. business relies on reimbursement from U.S. federal government healthcare programs and commercial insurance plans regulated by the U.S. federal and state governments. See Item 1. Business—Reimbursement. Changes to U.S. federal reimbursement policy may come through legislative and/or administrative actions. Discussions continue around a number of potential legislative changes that could affect the reimbursement and/or pricing of our products, including proposals to allow the U.S. federal government to directly negotiate drug prices with pharmaceutical manufacturers and to require manufacturers to pay higher rebates in the Medicare Part D setting. Legislation has been introduced into the U.S. Congress for other proposals, including legislation designed to overhaul provisions of the ACA as well as to enable commercial-level re-importation of prescription medications from Canada or other countries. State government actions or ballot initiatives can also affect how our products are covered and reimbursed or create additional pressure on how our products are priced. Some states have adopted, and many other states have discussed and debated and are considering, new pricing legislation, including state proposals designed to require biopharmaceutical manufacturers to publicly report proprietary pricing information, limit price increases or to place a maximum price ceiling, or cap, on pharmaceutical products. For example, in October 2017, California's governor signed into law a new drug pricing transparency bill that requires pharmaceutical manufacturers to notify health insurers and government health plans at least 60 days before scheduled prescription drug price increases that exceed certain thresholds. Existing and proposed pricing legislation could lead to the introduction and passage of additional bills or ballot initiatives in other states. While we are unable to predict if additional changes may ultimately be enacted, to the extent that these or other changes affect how our products are priced, paid for and reimbursed by government and private payers in the United States our business could be adversely impacted. Changes in U.S. federal reimbursement policy may also arise as a result of regulations or demonstration projects implemented by the CMS, the federal agency responsible for administering Medicare, Medicaid and the Health Insurance Marketplaces. CMS has substantial power to quickly implement policy changes that can significantly affect how our products are covered and reimbursed. Further, CMS is undertaking other projects to test care models, such as the CMS Oncology Care Model that provides participating physician practices with performance-based financial incentives that aim to manage or reduce Medicare

costs without negatively impacting the efficacy of care. We believe the Oncology Care Model has impacted utilization of certain of our oncology products by participating physician practices and may continue to do so in the future. CMS has also solicited suggestions regarding other potential care models. In addition, the timing of reimbursement policy decisions can affect our business. Legislative or regulatory changes in the United States or other federal or state government initiatives that decrease the coverage or reimbursement available for our products, require that we pay increased rebates, limit our ability to offer co-pay payment assistance to commercial patients, limit the pricing of pharmaceutical products or reduce the use of our U.S. products could have a material adverse effect on our business and results of operations.

Payers, including healthcare insurers, PBMs and group purchasing organizations, increasingly seek ways to reduce their costs. Many payers continue to adopt benefit plan changes that shift a greater portion of prescription costs to patients. Such measures include more limited benefit plan designs, higher patient co-pay or co-insurance obligations and limitations on patients' use of commercial manufacturer co-pay payment assistance programs (including through co-pay accumulator adjustment or maximization programs.) Payers also increasingly seek price discounts or rebates in connection with the placement of our products on their formularies or those they manage. Payers also control costs by imposing restrictions on access to or usage of our products, such as by requiring prior authorizations or step therapy, and may choose to exclude certain indications for which our products are approved or even choose to exclude coverage entirely. For example, some providers do not complete the burdensome administrative process required to demonstrate or document that the patients for whom Repatha® has been prescribed meet the payers' utilization management criteria and, as a result, patients do not gain access to Repatha® treatment. Further, other patients may obtain coverage for Repatha® but abandon their prescriptions rather than pay their co-pay payment. Significant consolidation in the health insurance industry has resulted in a few large insurers and PBMs exerting greater pressure in pricing and usage negotiations with drug manufacturers, significantly increasing discounts and rebates required of manufacturers and limiting patient access and usage. Further consolidation among insurers, PBMs and other payers, including through integrated delivery systems, would increase the negotiating leverage such entities have over us and other drug manufacturers. Ultimately, further discounts, rebates, coverage or plan changes, restrictions or exclusions as described above could have a material adverse effect on sales of our affected products.

Outside the United States, we expect countries will continue to take aggressive actions to reduce their healthcare expenditures. See Item 1. Business—Reimbursement. For example, international reference pricing (IRP) is widely used by a large number of countries to control costs based on an external benchmark of a product's price in other countries. IRP policies can quickly and frequently change and may not reflect differences in the burden of disease, indications, market structures, or affordability differences across countries or regions. Any deterioration in the coverage and reimbursement available for our products or in the timeliness or certainty of payment by payers to physicians and other providers could negatively impact the ability or willingness of healthcare providers to prescribe our products for their patients or could otherwise negatively affect the use of our products or the prices we receive for them. Such changes could have a material adverse effect on our product sales, business and results of operations.

We also face risks relating to the reporting of pricing data that affects the reimbursement of and discounts provided for our products. In the United States, pricing data that we submit to the U.S. government impacts the payment rates for providers, rebates we pay, and discounts we are required to provide under Medicare, Medicaid and other government drug programs. Government price reporting regulations are complex and may require a manufacturer to update certain previously submitted data. Our price reporting data calculations are reviewed monthly and quarterly, and based on such reviews we have on occasion restated previously reported pricing data to reflect changes in calculation methodology, reasonable assumptions and/or underlying data. If our submitted pricing data are incorrect, we may become subject to substantial fines and penalties or other government enforcement actions, which could have a material adverse effect on our business and results of operations. In addition, as a result of restating previously reported price data, we also may be required to pay additional rebates and provide additional discounts.

We currently face competition from biosimilars and expect to face increasing competition from biosimilars and generics in the future.

We currently face competition from biosimilars in both Europe and the United States, and we expect to face increasing biosimilar and/or generics competition this year and beyond. Expiration or successful challenge of applicable patent rights or expiration of an applicable data exclusivity period would accelerate such competition, and we expect to face more litigation regarding the validity and/or scope of our patents. Our products may also experience greater competition from lower-cost biosimilars or generics that come to market when branded products that compete with our products lose their own patent protection. To the extent that governments adopt more permissive approval frameworks and competitors are able to obtain broader or expedited marketing approval for biosimilars and generics, the rate of increased competition for our products could accelerate.

In the EU, biosimilars are evaluated and authorized pursuant to a set of general and product class-specific guidelines. In addition, in an effort to spur biosimilar utilization and/or increase potential healthcare savings, some EU countries have adopted and others are attempting to adopt biosimilar uptake measures such as requiring physician prescribing quotas or promoting switching or pharmacy substitution of biosimilars for the corresponding reference products, and other countries may adopt similar measures. Some EU countries impose automatic price reductions upon market entry of one or more biosimilar competitors.

In the United States, the ACA authorized the FDA to approve biosimilars via a separate, abbreviated pathway. See Item 1. Business—Government Regulation—Regulation in the United States—Approval of Biosimilars. The first biosimilar entrant into the U.S. market, Sandoz’s Zarxio[®], is a biosimilar version of NEUPOGEN[®], and was launched in the United States in 2015. Since then, the FDA has approved additional biosimilars, including a biosimilar version of ENBREL. In addition, a growing number of companies have announced that they are in varying stages of development of biosimilar versions of existing biotechnology products, including biosimilars that would compete with our products. Companies pursuing development of biosimilar versions of our products have challenged and may continue to challenge our patents well in advance of the expiration of our material patents. For information related to our biosimilars patent litigation, see Part IV—Note 18, Contingencies and commitments, to the Consolidated Financial Statements. See *Our intellectual property positions may be challenged, invalidated or circumvented, or we may fail to prevail in present and future intellectual property litigation*. The U.S. pathway includes the option for biosimilar products that meet certain criteria to be approved as interchangeable with their reference products. Some companies currently developing biosimilars may seek to register their products as interchangeable biologics, which could make it easier for pharmacists to substitute those biosimilars for our products or could encourage prescribers who are inclined to select the interchangeable biosimilar over our innovative products. In addition, critics of the 12-year exclusivity period in the biosimilar pathway law will likely continue to seek to shorten the data exclusivity period and/or to encourage the FDA to interpret narrowly the law’s provisions regarding which new products receive data exclusivity, which could expose us to biosimilar competition at an earlier time. There also have been, and may continue to be, public, legislative, and FDA efforts to promote price competition through easier generic entry. While we are unable to predict the precise impact of biosimilars on our products, we are currently facing and expect to face greater competition in the United States, Europe and elsewhere this year and beyond as a result of biosimilar and generic competition and downward pressure on our product prices and sales. This competition has had and could increasingly have a material adverse effect on our business and results of operations.

Our products face substantial competition.

We operate in a highly competitive environment. See Item 1. Business—Marketing, Distribution and Selected Marketed Products—Competition. We expect that our products will compete with new drugs currently in development, drugs currently approved for other indications that may later be approved for the same indications as those of our products and drugs approved for other indications that are used off-label. Large pharmaceutical companies and generics manufacturers of pharmaceutical products are expanding into the biotechnology field, and some pharmaceutical companies and generics manufacturers have formed partnerships to pursue biosimilars. In addition, some of our competitors may have technical, competitive or other advantages over us for the development of technologies and processes or greater experience in particular therapeutic areas, and consolidation among pharmaceutical and biotechnology companies can enhance such advantages. These advantages may make it difficult for us to compete with them to successfully discover, develop and market new products and for our current products to compete with new products or new product indications they may bring to market. As a result, our products may compete against products that have lower prices, equivalent or superior performance, better safety profiles, easier administration, earlier market availability or other competitive features. If we are unable to compete effectively, this could reduce sales, which could have a material adverse effect on our business and results of operations.

Our intellectual property positions may be challenged, invalidated or circumvented, or we may fail to prevail in present and future intellectual property litigation.

Our success depends in part on our ability to obtain and defend patent rights and other intellectual property rights that are important to the commercialization of our products and product candidates. The patent positions of pharmaceutical and biotechnology companies can be highly uncertain and often involve complex legal, scientific and factual questions. Third parties may challenge, invalidate or circumvent our patents and patent applications relating to our products, product candidates and technologies. Challenges to patents may come from potential competitors or from parties other than those who seek to market a potentially-infringing product. In addition, our patent positions might not protect us against competitors with similar products or technologies because competing products or technologies may not infringe our patents. For certain of our product candidates, there are third parties who have patents or pending patent applications that they may claim necessitate payment of a royalty or prevent us from commercializing these product candidates in certain territories. Patent disputes are frequent, costly and can preclude, delay or increase the cost of commercialization of products. We have been in the past, and are currently and expect to be in the future, involved in patent litigation. These matters have included and may in the future include litigation with manufacturers of products that purport to be biosimilars of certain of our products for patent infringement and for failure to comply with certain provisions of the Biologics Price Competition and Innovation Act, including the requirement to provide 180 days’ notice in advance of commercial marketing. A determination made by a court, agency or tribunal concerning infringement, validity, enforceability, injunctive or economic remedy, or the right to patent protection, for example, are typically subject to appellate or administrative review. Upon review, such initial determinations may be afforded little or no deference by the reviewing tribunal and may be affirmed, reversed, or made the subject of reconsideration through further proceedings. A patent dispute or litigation may not discourage a potential violator from bringing the allegedly-infringing product to market prior to a final resolution of the dispute or litigation. The period from inception until resolution of a patent dispute or litigation is subject to the availability and schedule of the court, agency or tribunal before which the dispute or litigation is pending. We may be subject to competition during this

period and may not be able to recover fully from the losses, damages, and harms we incur from infringement by the competitor product even if we prevail. Moreover, if we lose or settle current or future litigations at certain stages or entirely, we could be subject to competition and/or significant liabilities, be required to enter into third-party licenses for the infringed product or technology or be required to cease using the technology or product in dispute. In addition, we cannot guarantee that such licenses will be available on terms acceptable to us, or at all.

Further, under the Hatch-Waxman Act, our products approved by the FDA under the FDCA may be the subject of patent litigation with generics competitors before expiry of the five-year period of data exclusivity provided for under the Hatch-Waxman Act and prior to the expiration of the patents listed for the product. Likewise, our innovative biologic products may be the subject of patent litigation prior to the expiration of our patents and, with respect to competitors seeking approval as a biosimilar or interchangeable version of our products, prior to the 12-year exclusivity period provided under the ACA. In addition, we may face additional patent litigation involving claims that the biosimilar product candidates we are working to develop infringe the patents of other companies that manufacture, market or sell the applicable reference products. While we may attempt to challenge such patents, our efforts may be unsuccessful. For information related to our patent litigation with manufacturers of proposed generic and biosimilar versions of our products, see Part IV—Note 18, Contingencies and commitments, to the Consolidated Financial Statements.

Certain of the existing patents on our products have recently expired. See Item 1. Business—Marketing, Distribution and Selected Marketed Products—Patents. As our patents expire, competitors are able to legally produce and market similar products or technologies, including biosimilars, which may have a material adverse effect on our product sales, business and results of operations. In addition, competitors may be able to invalidate, design around or otherwise circumvent our patents and sell competing products.

Guidelines and recommendations published by various organizations can reduce the use of our products.

Government agencies promulgate regulations and guidelines directly applicable to us and to our products. However, professional societies, practice management groups, insurance carriers, physicians groups, private health and science foundations and organizations involved in various diseases also publish guidelines and recommendations to healthcare providers, administrators and payers, as well as patient communities. Recommendations by government agencies or other groups and organizations may relate to such matters as usage, dosage, route of administration and use of related therapies, and a growing number of organizations are providing assessments of the value and pricing of pharmaceutical products. These assessments may come from private organizations, such as the Institute for Clinical and Economic Review (ICER), which publish their findings and offer recommendations relating to the products' reimbursement by government and private payers. In addition, government HTA organizations, such as the National Institute for Health and Clinical Excellence (NICE) in the United Kingdom and the Canadian Agency for Drugs and Technologies in Health, make reimbursement recommendations to payers in their jurisdictions based on the clinical effectiveness, cost-effectiveness and service impact of new, emerging and existing medicines and treatments. Such HTA organizations may recommend reimbursement for our product for a narrower indication than was approved by applicable regulatory agencies, or may recommend against reimbursement entirely. Such recommendations or guidelines may affect our reputation, and any recommendations or guidelines that result in decreased use, dosage or reimbursement of our products could have a material adverse effect on our product sales, business and results of operations. In addition, the perception by the investment community or stockholders that such recommendations or guidelines will result in decreased use and dosage of our products could adversely affect the market price of our common stock.

Our current products and products in development cannot be sold without regulatory approval.

Our business is subject to extensive regulation by numerous state and federal government authorities in the United States, including the FDA, and by foreign regulatory authorities, including the EMA. We are required in the United States and in foreign countries to obtain approval from regulatory authorities before we manufacture, market and sell our products. Once our products are approved, the FDA and other U.S. and foreign regulatory agencies have substantial authority to require additional testing and reporting, perform inspections, change product labeling or mandate withdrawals of our products. Failure to comply with applicable regulatory requirements may subject us to administrative and/or judicially imposed sanctions or monetary penalties as well as reputational and other harms. The sanctions could include the FDA's or foreign regulatory authorities' refusals to approve pending applications, delays in obtaining or withdrawals of approvals, delays or suspensions of clinical trials, warning letters, product recalls or seizures, total or partial suspensions of our operations, injunctions, fines, civil penalties and/or criminal prosecutions.

Obtaining and maintaining regulatory approval have been, and will continue to be, increasingly difficult, time-consuming and costly. Legislative bodies or regulatory agencies could enact new laws or regulations, change existing laws or regulations, or change their interpretations of laws or regulations at any time, which could affect our ability to obtain or maintain approval of our products or product candidates. The rate and degree of change in existing laws and regulations and regulatory expectations have accelerated in established markets, and regulatory expectations continue to evolve in emerging markets. We are unable to predict whether and when any further changes to laws or regulatory policies affecting our business could occur, such as changes to

regulations governing manufacturer communications concerning drug products and drug product candidates, and whether such changes could have a material adverse effect on our business and results of operations.

Regulatory authorities may also question the sufficiency for approval of the endpoints we select for our clinical trials. A number of our products and product candidates have been evaluated in clinical trials using surrogate endpoints that measure an effect that is known to correlate with an ultimate clinical endpoint. For example, a therapeutic oncology product candidate may be evaluated for its ability to extend the length of time during and after the treatment that a patient lives without the disease worsening, measured by progression-free survival (PFS). Demonstrating that the product candidate produces a statistically significant improvement in PFS does not necessarily mean that the product candidate will show a statistically significant improvement in overall survival, or the time that the patients remain alive. In the cardiovascular setting, a heart disease therapeutic candidate may be evaluated for its ability to reduce LDL-C levels, as elevated LDL-C level has been a surrogate endpoint for cardiovascular events such as death, heart attack and stroke. The use of surrogate endpoints such as PFS and LDL-C reduction, in the absence of other measures of clinical benefit, may not be sufficient for broad usage or approval even when such results are statistically significant. Regulatory authorities could also add new requirements, such as the completion of enrollment in a confirmatory study or the completion of an outcomes study or a meaningful portion of an outcomes study, as conditions for obtaining approval or obtaining an indication. For example, our initial FDA application for Repatha® sought approval for a broader patient population based on data demonstrating that Repatha® reduced LDL-C levels. However, the FDA initially approved Repatha® in 2015 only for a subset of those patients, citing among other things the absence of positive outcomes data showing that Repatha® prevents cardiovascular events. In December 2017, the FDA granted broader approval of Repatha® to reduce the risk of certain cardiovascular events, and also to be used, alone or in combination with other lipid-lowering therapies, for the treatment of adults with primary hyperlipidemia to reduce LDL-C, only after our large phase 3 outcomes study evaluating the ability of Repatha® to prevent cardiovascular events met its primary composite endpoint and key secondary composite endpoint. See Item 1. Business—Significant Developments. There may also be situations in which demonstrating the efficacy and safety of a product candidate may not be sufficient to gain regulatory approval unless superiority to other existing treatment options can be shown. The imposition of additional requirements or our inability to meet them in a timely fashion or at all may delay our clinical development and regulatory filing efforts, delay or prevent us from obtaining regulatory approval for new product candidates or new indications for existing products, or prevent us from maintaining our current labels.

Some of our products have been approved by U.S. and foreign regulatory authorities on a conditional basis with full approval conditioned upon fulfilling the requirements of regulators. For example, BLINCYTO® received conditional marketing authorization for the treatment of patients with Philadelphia chromosome-negative relapsed or refractory B-cell precursor ALL from the EC in November 2015, with full authorization conditioned on demonstrating clinical effectiveness and safety in clinical practice and in a subsequent clinical trial. Regulatory authorities are placing greater focus on monitoring products originally approved on an accelerated or conditional basis and on whether the sponsors of such products have met the conditions of the accelerated or conditional approvals. If we are unable to fulfill the regulators' requirements that were conditions of a product's accelerated or conditional approval and/or if regulators re-evaluate the data or risk-benefit profile of our product, the conditional approval may not result in full approval or may be revoked or not renewed. Alternatively, we may be required to change the product's labeled indications or even withdraw the product from the market.

Safety problems or signals can arise as our products and product candidates are evaluated in clinical trials, including investigator sponsored studies, or as our marketed products are used in clinical practice. We are required to continuously collect and assess adverse events reported to us and to communicate to regulatory agencies these adverse events and safety signals regarding our products. Regulatory agencies periodically perform inspections of our pharmacovigilance processes, including our adverse event reporting. In 2012, pharmacovigilance legislation became effective in the EU that enhanced the authority of European regulators to require companies to conduct additional post-approval clinical efficacy and safety studies and increased the requirements on sponsor companies to analyze and evaluate the risk-benefit profiles of their products. Similarly, for our products with approved REMS (see Item 1. Business—Government Regulation—Post-approval Phase), we are required to submit periodic assessment reports to the FDA to demonstrate that the goals of the REMS are being met. REMS and other risk management programs are designed to ensure that a drug's benefits outweigh the risks, and vary in the elements they contain. If the FDA is not satisfied with the results of the periodic assessment reports we submit for any of our REMS, the FDA may also modify our REMS or take other regulatory actions, such as implementing revised or restrictive labeling. The drug delivery devices approved for use in combination with our products are also subject to regulatory oversight and review for safety and malfunctions. If regulatory agencies determine that we or other parties (including our clinical trial investigators, those operating our patient support programs or licensees of our products) have not complied with the applicable reporting, other pharmacovigilance or other safety or quality assessment requirements, we may become subject to additional inspections, warning letters or other enforcement actions, including fines, marketing authorization withdrawal and other penalties. Our product candidates and marketed products can also be affected by safety problems or signals occurring with respect to products that are similar to ours and that implicate an entire class of products. Further, as a result of clinical trials, including sub-analyses or meta-analyses of earlier clinical trials (a meta-analysis

involves the use of various statistical methods to combine results from previous separate but related studies) performed by us or others, concerns may arise about the sufficiency of the data or studies underlying a product's approved label. Such actual or perceived safety problems or concerns can lead to:

- revised or restrictive labeling for our products, or the potential for restrictive labeling that may result in our decision not to commercialize a product candidate;
- requirement of risk management activities or other regulatory agency compliance actions related to the promotion and sale of our products;
- mandated post-marketing commitments or pharmacovigilance programs for our approved products;
- product recalls of our approved products;
- revocation of approval for our products from the market completely, or within particular therapeutic areas or patient types;
- increased timelines or delays in being approved by the FDA or other regulatory bodies; and/or
- fewer treatments or product candidates being approved by regulatory bodies.

For example, since 2006, when adverse safety results involving ESAs were observed, ESAs continue to be the subject of ongoing review and scrutiny. Reviews by regulatory authorities of the risk-benefit profile of ESAs have resulted in, and may continue to result in, changes to ESA labeling and usage in both the oncology and nephrology clinical settings.

In addition to our innovative products, we are working to develop and commercialize biosimilar versions of a number of products currently manufactured, marketed and sold by other pharmaceutical companies. In some markets, there is not yet a legislative or regulatory pathway for the approval of biosimilars. In the United States, the ACA provided for such a pathway; while the FDA continues to implement it, questions remain as to the evidence needed to demonstrate biosimilarity or interchangeability for specific products and what information can be included in biosimilar labeling. See *We currently face competition from biosimilars and expect to face increasing competition from biosimilars and generics in the future*. Delays or uncertainties in the development of such pathways could result in delays or difficulties in getting our biosimilar products approved by regulatory authorities, subject us to unanticipated development costs or otherwise reduce the value of the investments we have made in the biosimilars area. Further, we cannot predict whether any repeal or reform of the ACA would affect the biosimilar pathway or have a material adverse effect on our development of biosimilars. In addition, if we are unable to bring our biosimilar products to market on a timely basis, and secure "first-to-market" positions, our future biosimilar sales and results of operations could be materially and adversely affected.

We may not be able to develop commercial products despite significant investments in R&D.

Amgen invests heavily in R&D. Successful product development in the biotechnology industry is highly uncertain, and very few R&D projects produce commercial products. Product candidates, including biosimilar product candidates, or new indications for existing products (collectively, product candidates) that appear promising in the early phases of development may fail to reach the market for a number of reasons, such as:

- the product candidate did not demonstrate acceptable clinical trial results even though it demonstrated positive preclinical trial results, for reasons that could include changes in the standard of care of medicine;
- the product candidate was not effective or not more effective than currently available therapies in treating a specified condition or illness;
- the product candidate was not cost effective in light of existing therapeutics;
- the product candidate had harmful side effects in animals or humans;
- the necessary regulatory bodies, such as the FDA or EMA, did not approve the product candidate for an intended use;
- the product candidate was not economical for us to manufacture and commercialize;
- the biosimilar product candidate failed to demonstrate the requisite biosimilarity to the applicable reference product, or was otherwise determined by a regulatory authority to not meet applicable standards for approval;
- other parties had or may have had proprietary rights relating to our product candidate, such as patent rights, and did not let us sell it on reasonable terms, or at all;
- we and certain of our licensees, partners, contracted organizations or independent investigators may have failed to effectively conduct clinical development or clinical manufacturing activities; and
- the pathway to regulatory approval or reimbursement for product candidates was uncertain or not well-defined.

A number of our product candidates have failed or been discontinued at various stages in the product development process. For example, in May 2015, we terminated our participation in the co-development and commercialization of brodalumab with AstraZeneca. The decision was based on events of suicidal ideation and behavior in the brodalumab program, which we believed likely would necessitate restrictive labeling that would limit the appropriate patient population. Inability to bring a product to market or a significant delay in the expected approval and related launch date of a new product for any of the reasons discussed could potentially have a negative impact on our product sales and earnings and could result in a significant impairment of in-process research and development (IPR&D) or other intangible assets.

We must conduct clinical trials in humans before we commercialize and sell any of our product candidates or existing products for new indications.

Before we sell any products, we must conduct clinical trials to demonstrate that our product candidates are safe and effective for use in humans. The results of those clinical trials are used as the basis to obtain approval from regulatory authorities such as the FDA and EMA. See *Our current products and products in development cannot be sold without regulatory approval*. We are required to conduct clinical trials using an appropriate number of trial sites and patients to support the product label claims. The length of time, number of trial sites and number of patients required for clinical trials vary substantially, and we may spend several years and incur substantial expense in completing certain clinical trials. In addition, we may have difficulty finding a sufficient number of clinical trial sites and patients to participate in our clinical trials, particularly if competitors are conducting clinical trials in similar patient populations. Patients may withdraw from clinical trials at any time, and privacy laws and/or other restrictions in certain countries may restrict the ability of clinical trial investigators to conduct further follow-up on such patients, which may adversely affect the interpretation of study results. Delays and complications in planned clinical trials can result in increased development costs, associated delays in regulatory approvals and in product candidates reaching the market and revisions to existing product labels.

Further, to increase the number of patients available for enrollment in our clinical trials, we have and will continue to open clinical sites and enroll patients in a number of locations where our experience conducting clinical trials is more limited, including Russia, India, China, South Korea, the Philippines, Singapore and some Central and South American countries, either through utilization of third-party contract clinical trial providers entirely or in combination with local staff. Conducting clinical trials in locations where we have limited experience requires substantial time and resources to understand the unique regulatory environments of individual countries. Further, we must ensure the timely production, distribution and delivery of the clinical supply of our product candidates to numerous and varied clinical trial sites. If we fail to adequately manage the design, execution and diverse regulatory aspects of our large and complex clinical trials or to manage the production or distribution of our clinical supply, corresponding regulatory approvals may be delayed or we may fail to gain approval for our product candidates or could lose our ability to market existing products in certain therapeutic areas or altogether. If we are unable to market and sell our products or product candidates or to obtain approvals in the timeframe needed to execute our product strategies, our business and results of operations could be materially and adversely affected.

We rely on independent third-party clinical investigators to recruit patients and conduct clinical trials on our behalf in accordance with applicable study protocols, laws and regulations. Further, we rely on unaffiliated third-party vendors to perform certain aspects of our clinical trial operations. In some circumstances, we enter into co-development arrangements with other pharmaceutical and medical devices companies that provide for the other company to conduct certain clinical trials for the product we are co-developing. We also may acquire companies that have past or ongoing clinical trials or rights to products or product candidates for which clinical trials have been or are being conducted. These trials may not have been conducted to the same standards as ours; however, once an acquisition has been completed we assume responsibility for the conduct of these trials, including any potential risks and liabilities associated with the past and prospective conduct of those trials. If regulatory authorities determine that we or others, including our licensees or co-development partners, or the independent investigators or vendors selected by us, our co-development partners or by a company we have acquired or from which we have acquired rights to a product or product candidate, have not complied with regulations applicable to the clinical trials, those authorities may refuse or reject some or all of the clinical trial data or take other actions that could negatively impact our ability to obtain or maintain marketing approval of the product or indication. If we were unable to market and sell our products or product candidates, our business and results of operations could be materially and adversely affected.

In addition, some of our clinical trials utilize drugs manufactured and marketed by other pharmaceutical companies. These drugs may be administered in clinical trials in combination with one of our products or product candidates or in a head-to-head study comparing the products' or product candidates' relative efficacy and safety. In the event that any of these vendors or pharmaceutical companies have unforeseen issues that negatively impact the quality of their work product or create a shortage of supply, or if we are otherwise unable to obtain an adequate supply of these other drugs, our ability to complete our applicable clinical trials and/or evaluate clinical results may also be negatively impacted. As a result, such quality or supply problems could adversely affect our ability to timely file for, gain or maintain regulatory approvals worldwide.

Clinical trials must be designed based on the current standard of medical care. However, in certain diseases, such as cancer, the standard of care is evolving rapidly. In such diseases, the duration of time needed to complete certain clinical trials may result

in the design of such clinical trials being based on standards of medical care that are no longer the current standards by the time such trials are completed, limiting the utility and application of such trials. We may not obtain favorable clinical trial results and therefore may not be able to obtain regulatory approval for new product candidates or new indications for existing products and/or maintain our current product labels. Participants in clinical trials of our products and product candidates may also suffer adverse medical events or side effects that could, among other factors, delay or terminate clinical trial programs and/or require additional or longer trials to gain approval.

Even after a product is on the market, safety concerns may require additional or more extensive clinical trials as part of a risk management plan for our product or for approval of a new indication. For example, in connection with the June 2011 ESA label changes, we agreed to and conducted additional clinical trials examining the use of ESAs in CKD. Additional clinical trials we initiate, including those required by the FDA, could result in substantial additional expense and the outcomes could result in further label restrictions or the loss of regulatory approval for an approved indication, each of which could have a material adverse effect on our business and results of operations. Additionally, any negative results from such trials could materially affect the extent of approvals, the use, reimbursement and sales of our products, our business and results of operations.

Some of our products are used with drug delivery or companion diagnostic devices that have their own regulatory, manufacturing and other risks.

Many of our products and product candidates may be used in combination with a drug delivery device, such as an injector or other delivery system. For example, Neulasta[®] is available as part of the Neulasta[®] Onpro[®] kit, and we recently launched the AutoTouch[™] reusable auto-injector to be used with Enbrel Mini[™] single-dose prefilled cartridges. In addition, some of our product candidates may also be used in combination with a companion diagnostic device. Our product candidates or expanded indications of our products used with such devices may not be approved or may be substantially delayed in receiving regulatory approval if such devices do not also gain or maintain regulatory approval or clearance. When approval of the product and device is sought under a single marketing drug application, the increased complexity of the review process may delay receipt of regulatory approval. In addition, some of these devices may be provided by single-source unaffiliated third-party companies. We are dependent on the sustained cooperation and effort of those third-party companies both to supply the devices and, in some cases, to conduct the studies required for approval or clearance by the applicable regulatory agencies. We are also dependent on those third-party companies continuing to meet applicable regulatory or other requirements. Failure to successfully develop or supply the devices, delays in or failures of the Amgen or third-party studies, or failure of us or the third-party companies to obtain or maintain regulatory approval or clearance of the devices could result in increased development costs; delays in, or failure to obtain, regulatory approval; and/or associated delays in a product candidate reaching the market or in the addition of new indications for existing products. We are also required to collect and assess user complaints, adverse events, and malfunctions regarding our devices, and actual or perceived safety problems or concerns with a device used with our product can lead to regulatory actions and impacts to our products. See *Our current products and products in development cannot be sold without regulatory approval*. Additionally, regulatory agencies conduct routine monitoring and conduct inspections to identify and evaluate potential issues with our devices. For example, in 2017 the FDA reported on its adverse event reporting system that it is evaluating our Neulasta[®] Onpro[®] kit. Loss of regulatory approval or clearance of a device that is used with our product may also result in the removal of our product from the market. Further, failure to successfully develop, supply, or gain or maintain approval for these devices could adversely affect sales of the related, approved products.

The adoption and interpretation of new tax legislation or exposure to additional tax liabilities could affect our profitability.

We are subject to income and other taxes in the United States and other jurisdictions in which we do business. As a result, our provision for income taxes is derived from a combination of applicable tax rates in the various places we operate. Significant judgment is required for determining our provision for income tax.

Our tax returns are routinely examined by tax authorities in the United States and other jurisdictions in which we do business, and a number of audits are currently underway. Tax authorities are becoming more aggressive in their audits and are particularly focused on the allocations of income and expense among tax jurisdictions. As previously disclosed, we received a Revenue Agent Report (RAR) from the Internal Revenue Service (IRS) for the years 2010, 2011, and 2012. The RAR proposes to make significant adjustments that relate primarily to the allocation of profits between certain of our entities in the United States and the U.S. territory of Puerto Rico. On November 29, 2017, we received a modified RAR that revised their calculation but continued to propose substantial adjustments. We disagree with the proposed adjustments and are pursuing resolution through the IRS administrative appeals process, which we believe will likely not be concluded within the next 12 months. Final resolution of the IRS audit could have a material impact on our results of operations and cash flows if not resolved favorably. We believe our accrual for income tax liabilities is appropriate based on past experience, interpretations of tax law, and judgments about potential actions by tax authorities; however, due to the complexity of the provision for income taxes, the ultimate resolution of any tax matters may result in payments greater or less than amounts accrued. See Part IV—Note 5, Income taxes, to the Consolidated Financial Statements.

Our provision for income taxes and results of operations in the future could be adversely affected by changes to our operating structure, changes in the mix of income and expenses in countries with differing tax rates, changes in the valuation of deferred

tax assets and liabilities, and changes in applicable tax laws, regulations or administrative interpretations thereof. We incurred a net estimated tax expense of \$6.1 billion due to the repatriation tax on accumulated foreign earnings and the remeasurement of certain net deferred and other tax liabilities as a result of the 2017 Tax Act. In computing our expense, we are allowed under new SEC accounting guidance to record provisional amounts during a measurement period not to extend beyond one year of the enactment date. We consider a number of key estimates we have made with respect to the 2017 Tax Act to be incomplete due to our continuing analysis of final year-end data and tax positions. Our continuing analysis (which will include evaluation of future U.S. Treasury regulations, accounting interpretations or other developments relating to the 2017 Tax Act) could affect the measurement of these balances and give rise to new deferred tax assets and liabilities. See Part II, Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations—Results of Operations—Income taxes.

We perform a substantial majority of our commercial manufacturing activities at our facility in the U.S. territory of Puerto Rico and substantially all of our clinical manufacturing activities at our facility in Thousand Oaks, California; significant disruptions or production failures at these facilities could significantly impair our ability to supply our products or continue our clinical trials.

We currently perform a substantial majority of our commercial manufacturing activities at our facility in the U.S. territory of Puerto Rico and substantially all of our clinical manufacturing activities at our facility in Thousand Oaks, California. The global supply of our products and product candidates for commercial sales and for use in our clinical trials is significantly dependent on the uninterrupted and efficient operation of these facilities. See *Manufacturing difficulties, disruptions or delays could limit supply of our products and limit our product sales.*

In late September 2017, Hurricane Maria made landfall on the island of Puerto Rico. The hurricane destroyed residential and commercial buildings, agriculture, communications networks and most of Puerto Rico's electric grid. The critical manufacturing areas of our commercial manufacturing facility were not significantly impacted by the storm, and we have now resumed our full manufacturing operations. The restoration of electrical service on the island has been a slow process. As a result, our facility operated with electrical power from back-up diesel-powered generators through the end of 2017 and we received regular deliveries of diesel fuel under pre-arranged contracts. In January 2018, we reconnected to the Puerto Rico electric grid and began operating without the back-up generators. However, power has not been restored to the entire island, and it is possible that the electric grid may not remain stable and we may be required to resume use of our diesel generators. In addition, supplies of medical-grade oxygen and nitrogen used in biopharmaceutical manufacturing operations are limited on the island, and we have arranged deliveries of both gases from the U.S. mainland and other countries. See *Manufacturing difficulties, disruptions or delays could limit supply of our products and limit our product sales.*

While nearly all of our staff have returned to work, some of them or their families may now or in the future be without housing, access to food and clean water, electricity, healthcare, sanitation, communications services, childcare, transportation or other essentials, and for these or other reasons some of our staff may be forced or elect to temporarily or permanently relocate elsewhere on or off the island. A substantial disruption in our ability to operate our Puerto Rico manufacturing facility (whether due to problems with the facility itself, the infrastructure and services available on the island, the unavailability of raw materials or supplies from vendors, the unavailability of key staff or otherwise) or get supplies and manufactured products transported to and from that location could materially and adversely affect our ability to supply our products and affect our product sales. See *Manufacturing difficulties, disruptions or delays could limit supply of our products and limit our product sales.*

The impact of Hurricane Maria is certain to place greater stress on the island's already challenged economy. Since June 2015, when the Governor of Puerto Rico announced that the government (including certain government entities) was unable to pay its roughly \$72 billion in debt, the government's liquidity position has continued to deteriorate and public reports indicate that the Puerto Rico government is not making certain payments with respect to its obligations. On June 30, 2016, President Obama signed into law the Puerto Rico Oversight, Management, and Economic Stability Act (PROMESA) to provide a mechanism for Puerto Rico to restructure its debt, achieve fiscal responsibility and gain access to capital markets. PROMESA established a federal Financial Oversight and Management Board (Oversight Board) to provide fiscal oversight through the development and approval of fiscal plans and budgets for Puerto Rico and to assist in the debt restructuring. In May 2017, after negotiations with creditors were unsuccessful and an automatic stay of creditor actions expired, the Oversight Board approved and certified the filing in the U.S. District Court for the District of Puerto Rico of a voluntary petition under Title III of PROMESA for the government of Puerto Rico, following thereafter with similar filings for certain Puerto Rico government entities. Title III of PROMESA provides Puerto Rico with a judicial process for restructuring its debt similar to, but not identical to, Chapter 9 of the U.S. Bankruptcy Code. Given the severe conditions in Puerto Rico after Hurricane Maria, it is expected that resolution of Puerto Rico's outstanding debt situation through the PROMESA judicial process will be delayed pending recovery efforts. Additionally, in January 2017, the Puerto Rico government enacted the Puerto Rico Fiscal Emergency and Fiscal Responsibility Act, which, among other things, declared a state of financial emergency in Puerto Rico and authorized the Governor to designate certain services as essential services, and other services as non-essential in order to prioritize the use of available resources to satisfy Puerto Rico's obligations. The Puerto Rico government has continued to extend the emergency period. In June 2017, the Oversight Board certified the Puerto Rico government's budget for fiscal year 2018. In January 2018, the Puerto Rico government proposed a revised fiscal plan. The revised fiscal plan

is subject to approval by the Oversight Board and calls for delayed and reduced payments to creditors and assumes U.S. federal disaster assistance of \$35 billion.

The Puerto Rico government is continuing to seek assistance from the U.S. government for disaster relief related to Hurricane Maria. In October 2017, the U.S. Congress approved a supplemental appropriation for disaster relief whereby Puerto Rico could receive a loan of up to approximately \$5 billion to be used by the Puerto Rico government to provide essential services. U.S. and Puerto Rico officials are currently negotiating the terms and conditions of disaster relief loans that may be granted to Puerto Rico. In November 2017, the Governor of Puerto Rico submitted an additional request for federal disaster assistance to restore housing and rebuild a resilient power grid. It is not certain whether and what amounts will be appropriated by the U.S. Congress to assist in the hurricane recovery. In addition, the recently enacted U.S. tax reform legislation will no longer permit deferral of U.S. taxation on Puerto Rico earnings of U.S. companies (or their foreign subsidiaries), although these earnings generally will be taxed in the United States at a reduced 10.5% rate. Given Puerto Rico's challenged economy and hurricane recovery needs, it may be difficult for Puerto Rico to sustain or grow its manufacturing base due to competition from other foreign locations subject to a similar level of U.S. taxation, or U.S. locations due to the reduction in the U.S. corporate tax rate from 35% to 21%. The manufacturing sector currently contributes more than 45% of Puerto Rico's gross domestic product, and U.S. companies with Puerto Rico operations contribute more than 33% of Puerto Rico's revenue base.

While PROMESA and the actions above continue to be important factors in moving Puerto Rico toward economic stability, there is still a risk that Puerto Rico's ongoing economic challenges, the effects of Hurricane Maria and the potential impact of the 2017 Tax Act could negatively affect the territorial government's provision of utilities or other services in Puerto Rico that we use in the operation of our business, create the potential for increased taxes or fees to operate in Puerto Rico, result in a migration of workers from Puerto Rico to the mainland United States, and/or make it more expensive or difficult for us to operate in Puerto Rico, which could materially and adversely affect our ability to supply our products and affect our product sales.

We rely on third-party suppliers for certain of our raw materials, medical devices and components.

We rely on unaffiliated third-party suppliers for certain raw materials, medical devices and components necessary for the manufacturing of our commercial and clinical products. Certain of those raw materials, medical devices and components are proprietary products of those unaffiliated third-party suppliers and are specifically cited in our drug applications with regulatory agencies so that they must be obtained from that specific sole source or sources and could not be obtained from another supplier unless and until the regulatory agency approved such supplier. For example, Insulet Corporation is our single source of the on-body injector for our Neulasta[®] Onpro[®] kit. Also, certain of the raw materials required in the commercial and clinical manufacturing of our products are sourced from other countries and/or derived from biological sources, including mammalian tissues, bovine serum and human serum albumin.

Among the reasons we may be unable to obtain these raw materials, medical devices and components include:

- regulatory requirements or action by regulatory agencies or others;
- adverse financial or other strategic developments at or affecting the supplier, including bankruptcy;
- unexpected demand for or shortage of raw materials, medical devices or components;
- failure to comply with our quality standards which results in quality and product failures, product contamination and/or recall;
- a material shortage, contamination, recall and/or restrictions on the use of certain biologically derived substances or other raw materials;
- discovery of previously unknown or undetected imperfections in raw materials, medical devices or components; and
- labor disputes or shortages, including from the effects of health emergencies and natural disasters.

For example, in prior years we have experienced shortages in certain components necessary for the formulation, fill and finish of certain of our products in our Puerto Rico facility. Further quality issues that result in unexpected additional demand for certain components may lead to shortages of required raw materials or components (such as we have experienced with EPOGEN[®] glass vials). We may experience similar or other shortages in the future resulting in delayed shipments, supply constraints, clinical trial delays, contract disputes and/or stock-outs of our products. These or other similar events could negatively impact our ability to satisfy demand for our products or conduct clinical trials, which could have a material adverse effect on our product use and sales and our business and results of operations.

Manufacturing difficulties, disruptions or delays could limit supply of our products and limit our product sales.

Manufacturing biologic human therapeutic products is difficult, complex and highly regulated. We currently are involved in the manufacture of many of our products and plan to manufacture many of our product candidates. In addition, we currently use third-party contract manufacturers to produce, or assist in the production of, a number of our products, and we currently use

contract manufacturers to produce, or assist in the production of, a number of our late-stage product candidates and drug delivery devices. See Item 1. Business—Manufacturing, Distribution and Raw Materials—Manufacturing. Our ability to adequately and timely manufacture and supply our products and product candidates is dependent on the uninterrupted and efficient operation of our facilities and those of our third-party contract manufacturers, which may be impacted by:

- capacity of manufacturing facilities;
- contamination by microorganisms or viruses, or foreign particles from the manufacturing process;
- natural or other disasters, including hurricanes, earthquakes, volcanoes or fires;
- labor disputes or shortages, including the effects of health emergencies or natural disasters;
- compliance with regulatory requirements;
- changes in forecasts of future demand;
- timing and actual number of production runs and production success rates and yields;
- updates of manufacturing specifications;
- contractual disputes with our suppliers and contract manufacturers;
- timing and outcome of product quality testing;
- power failures and/or other utility failures; and/or
- breakdown, failure, substandard performance or improper installation or operation of equipment.

If the efficient manufacture and supply of our products or product candidates is interrupted, we may experience delayed shipments, delays in our clinical trials, supply constraints, stock-outs, adverse event trends, contract disputes and/or recalls of our products. From time to time we have initiated voluntary recalls of certain lots of our products. For example, in July 2014, we initiated a voluntary recall of an Aranesp[®] lot distributed in the EU after particles were detected in a quality control sample following distribution of that lot. If we are at any time unable to provide an uninterrupted supply of our products to patients, we may lose patients and physicians may elect to prescribe competing therapeutics instead of our products, which could have a material adverse effect on our product sales, business and results of operations.

Our manufacturing processes and those of our third-party contract manufacturers must undergo regulatory approval processes and are subject to continued review by the FDA and other regulatory authorities. It can take longer than five years to build, validate and license another manufacturing plant and it can take longer than three years to qualify and license a new contract manufacturer. We are in the process of commercially validating and licensing a second facility at our site in Singapore to enable the manufacture of the active pharmaceutical ingredient for KYPROLIS[®]. If we are unable to obtain needed licenses for this facility on a timely basis, it could adversely affect our ability to achieve our planned risk mitigation and cost reductions which, as a result, could have a material adverse effect on our product sales, business and results of operations.

If regulatory authorities determine that we or our third-party contract manufacturers or certain of our third-party service providers have violated regulations or if authorities restrict, suspend or revoke our prior approvals, they could prohibit us from manufacturing our products or conducting clinical trials or selling our marketed products until we or the affected third-party contract manufacturers or third-party service providers comply, or indefinitely. Such issues may also delay the approval of product candidates we have submitted for regulatory review, even if such product candidates are not directly related to the products, devices or processes at issue with regulators. Because our third-party contract manufacturers and certain of our third-party service providers are subject to the FDA and foreign regulatory authorities, alternative qualified third-party contract manufacturers and third-party service providers may not be available on a timely basis or at all. If we or our third-party contract manufacturers or third-party service providers cease or interrupt production or if our third-party contract manufacturers and third-party service providers fail to supply materials, products or services to us, we may experience delayed shipments, delays in our clinical trials, supply constraints, contract disputes, stock-outs and/or recalls of our products. Additionally, we distribute a substantial volume of our commercial products through our primary distribution centers in Louisville, Kentucky for the United States and in Breda, Netherlands for Europe and much of the rest of the world. We also conduct all the labeling and packaging of our products distributed in Europe and much of the rest of the world in Breda. Our ability to timely supply products is dependent on the uninterrupted and efficient operations of our distribution and logistics centers, our third-party logistics providers and our labeling and packaging facility in Breda. Further, we rely on commercial transportation, including air freight, for the distribution of our products to our customers, which may be negatively impacted by natural disasters or security threats.

Concentration of sales at certain of our wholesaler distributors and at one free-standing dialysis clinic business and consolidation of private payers may negatively impact our business.

Certain of our distributors, customers and payers have substantial purchasing leverage, due to the volume of our products they purchase or the number of patient lives for which they provide coverage. The substantial majority of our U.S. product sales is made to three pharmaceutical product wholesaler distributors: AmerisourceBergen Corporation, McKesson Corporation and Cardinal Health, Inc. These distributors, in turn, sell our products to their customers, which include physicians or their clinics, dialysis centers, hospitals and pharmacies. One of our products, EPOGEN[®], is sold primarily to free-standing dialysis clinics. DaVita owns or manages a large number of the outpatient dialysis facilities located in the United States and accounts for approximately 70% of all EPOGEN[®] sales. Similarly, as discussed above, there has been significant consolidation in the health insurance industry, including that a small number of PBMs now oversee a substantial percentage of total covered lives in the United States. See *Our sales depend on coverage and reimbursement from third-party payers, and pricing and reimbursement pressures may affect our profitability*. The concentration of purchasing and negotiating power by these entities may put pressure on our pricing due to their ability to extract price discounts on our products, fees for other services or rebates, negatively impacting our bargaining position, sales and/or profit margins. In addition, decisions by these entities to purchase or cover less or none of our products in favor of competitive products could have a material adverse effect on our business and results of operations due to their purchasing volume. Further, if one of our significant wholesale distributors encounters financial or other difficulties and becomes unable or unwilling to pay us all amounts that such distributor owes us on a timely basis or at all, it could negatively impact our business and results of operations. In addition, if one of our significant wholesale distributors becomes insolvent or otherwise unable to continue its commercial relationship with us in its present form, it could significantly disrupt our business and adversely affect our product sales, our business and results of operations unless suitable alternatives are timely found or lost sales are absorbed by another distributor.

Our efforts to acquire other companies or products and to integrate their operations may not be successful, and may result in unanticipated costs, delays or failures to realize the benefits of the transactions.

We seek innovation through significant investment in both internal R&D and external transactions including collaborations, partnering, alliances, licenses, joint ventures, mergers and acquisitions (acquisition activity). We have an ongoing process of evaluating such potential acquisition activity opportunities that we expect will contribute to our future growth and expand our geographic footprint, product offerings and/or our R&D pipeline. Acquisitions or similar arrangements may be complex, time consuming and expensive and may result in unanticipated costs, delays or other operational or financial problems related to integrating the acquired company and business with our company, which may result in the diversion of our management's attention from other business issues and opportunities. We may pay substantial amounts of cash, incur debt or issue equity securities to pay for acquisition activities, which could adversely affect our liquidity or result in dilution to our stockholders, respectively. Failures or difficulties in integrating or retaining new personnel or in integrating the operations of the businesses we acquire (including their technology, compliance programs, distribution and general business operations and procedures), while preserving important R&D, distribution, marketing, promotion and other relationships, may affect our ability to grow and may result in our incurring asset impairment or restructuring charges.

Our sales and operations are subject to the risks of doing business in emerging markets.

As we continue our expansion efforts in emerging markets around the world, through acquisitions and licensing transactions as well as through the development and introduction of our products in new markets, we face numerous risks to our business. There is no guarantee that our efforts and strategies to expand sales in emerging markets will succeed. Emerging market countries may be especially vulnerable to periods of global political, legal, regulatory and financial instability, including sovereign debt issues and/or the imposition of international sanctions in response to certain state actions. As we expand internationally, we are subject to fluctuations in foreign currency exchange rates relative to the U.S. dollar. While we have a program in place that is designed to reduce our exposure to foreign currency exchange rate fluctuations through foreign currency hedging arrangements, our hedging efforts do not completely offset the effect of these fluctuations on our revenues and earnings. We may also be required to increase our reliance on third-party agents and unfamiliar operations and arrangements previously utilized by companies we partner with or acquire in emerging markets. See *We must conduct clinical trials in humans before we commercialize and sell any of our product candidates or existing products for new indications*. Our international operations and business may also be subject to less protective intellectual property or other applicable laws, diverse data privacy and protection requirements, changing tax laws and tariffs, far-reaching anti-bribery and anti-corruption laws and regulations and/or evolving legal and regulatory environments. These legal and operational challenges along with government controls, the challenges of attracting and retaining qualified personnel and obtaining and/or maintaining necessary regulatory or pricing approvals of our products may result in a material adverse impact on our international product sales, business and results of operations.

Our business may be affected by litigation and government investigations.

We and certain of our subsidiaries are involved in legal proceedings. See Part IV—Note 18, Contingencies and commitments, to the Consolidated Financial Statements. Civil and criminal litigation is inherently unpredictable, and the outcome can result in

costly verdicts, fines and penalties, exclusion from federal healthcare programs and/or injunctive relief that affect how we operate our business. Defense of litigation claims can be expensive, time-consuming and distracting, and it is possible that we could incur judgments or enter into settlements of claims for monetary damages or change the way we operate our business, which could have a material adverse effect on our business and results of operations. In addition, product liability is a major risk in testing and marketing biotechnology and pharmaceutical products. We may face substantial product liability exposure in human clinical trials and for products we sell after regulatory approval. Product liability claims, regardless of their merits, could be costly and divert management's attention and could adversely affect our reputation and the demand for our products. We and certain of our subsidiaries have previously been named as defendants in product liability actions for certain of our products.

We are also involved in government investigations that arise in the ordinary course of our business. In recent years, there has been a trend of increasing government investigations and litigations against companies operating in our industry, both in the United States and around the world. Our business activities outside of the United States are subject to the FCPA and similar anti-bribery or anti-corruption laws, regulations or rules of other countries in which we operate, including the UK Bribery Act. As we announced on December 19, 2012, we finalized a settlement agreement with the U.S. government and various other parties to settle certain allegations regarding our sales and marketing practices. In connection with that settlement, we have been operating under a corporate integrity agreement with the OIG of the U.S. Department of Health and Human Services that requires us to maintain our corporate compliance program and to undertake a set of defined corporate integrity obligations until December 2017. The corporate integrity agreement also provides for an independent third-party review organization to assess and report on our compliance program. Certain of the corporate integrity agreement's reporting obligations to OIG continue into 2018. While we expect to fully comply with all of our obligations under the corporate integrity agreement, failure to do so could result in substantial penalties and our being excluded from government healthcare programs. We may see new government investigations of or actions against us citing novel theories of recovery. Any of these results could have a material adverse effect on our business and results of operations.

A breakdown, cyberattack or information security breach could compromise the confidentiality, integrity and availability of our information technology systems and network-connected control systems and our data, interrupt the operation of our business and affect our reputation.

To achieve our business objectives, we rely to a large extent upon sophisticated information technology systems and network-connected control systems, some of which are managed, hosted, provided or serviced by third parties. Internal or external events that compromise the confidentiality, integrity and availability of our systems and data may significantly interrupt the operation of our business, result in significant costs and/or affect our reputation.

Our information technology systems are highly integrated into our business, including our R&D efforts, our clinical and commercial manufacturing processes and our product sales and distribution processes. The complexity and interconnected nature of our systems makes them potentially vulnerable to breakdown or other service interruptions. Our systems are also subject to frequent cyberattacks. As the cyber-threat landscape evolves, these attacks are growing in frequency, sophistication and intensity, and are becoming increasingly difficult to detect. Such attacks could include the use of key loggers or other harmful and virulent malware, including ransomware or other denials of service, and can be deployed through malicious websites, the use of social engineering and/or other means. Attacks such as those recently seen with other multi-national companies, including some of our peers, could leave us unable to utilize key business systems or access important data needed to operate our business, including developing, gaining regulatory approval for, manufacturing, selling and distributing our products. For example, in 2017, Merck experienced a cyberattack involving virulent malware that significantly disrupted its operations, including the production of some of its medicines and vaccines. Our systems also contain and utilize a high volume of sensitive data, including intellectual property, trade secrets, financial information, regulatory information, strategic plans, sales trends and forecasts, litigation materials or personal information belonging to us, our staff, our patients, customers and/or other business partners. In some cases, we utilize third-party service providers to manage or transmit such data, which may increase our risk. Intentional or inadvertent data privacy or security breaches (including cyberattacks) by employees, service providers, nation states, organized crime organizations, "hacktivists" or others, pose risks that our sensitive data may be exposed to unauthorized persons, our competitors, or the public. Finally, domestic and global government regulators, our key business partners, suppliers with whom we do business, companies that provide us or our partners with important business services and companies we may acquire may face similar risks, and security breaches of their systems could adversely affect our security, leave us without access to important systems, products, raw materials, components, services or information or expose our confidential data. For example, we distribute our products in the United States primarily through three pharmaceutical wholesalers, and a security breach that impairs the distribution operations of our wholesalers could significantly impair our ability to deliver our products to healthcare providers.

Although in the past we have experienced system breakdowns, attacks and information security breaches, we do not believe such breakdowns, attacks and breaches have had a material adverse effect on our operations. We continue to invest in the monitoring, protection, and resilience of our critical or sensitive data and systems. However, there can be no assurance that our efforts will detect, prevent or fully recover systems or data from all breakdowns, service interruptions, attacks, or breaches of our systems that could adversely affect our business and operations and/or result in the loss of critical or sensitive data, which could result in

financial, legal, business or reputational harm to us or impact our stock price. While we maintain cyber-liability insurance, our insurance is not sufficient to cover us against all losses that could potentially result from a service interruption, breach of our systems or loss of our critical or sensitive data.

Global economic conditions may negatively affect us and may magnify certain risks that affect our business.

Our operations and performance have been, and may continue to be, affected by global economic conditions. Financial pressures may cause government or other third-party payers to more aggressively seek cost containment measures. See *Our sales depend on coverage and reimbursement from third-party payers, and pricing and reimbursement pressures may affect our profitability*. As a result of global economic conditions, some third-party payers may delay or be unable to satisfy their reimbursement obligations. Job losses or other economic hardships may also affect patients' ability to afford health care as a result of increased co-pay or deductible obligations, greater cost sensitivity to existing co-pay or deductible obligations, lost healthcare insurance coverage or for other reasons. We believe such conditions have led and could continue to lead to reduced demand for our products, which could have a material adverse effect on our product sales, business and results of operations. Economic conditions may also adversely affect the ability of our distributors, customers and suppliers to obtain the liquidity required to buy inventory or raw materials and to perform their obligations under agreements with us, which could disrupt our operations. Although we monitor our distributors', customers' and suppliers' financial condition and their liquidity to mitigate our business risks, some of our distributors, customers and suppliers may become insolvent, which could have a material adverse effect on our product sales, business and results of operations.

We maintain a significant portfolio of investments disclosed as cash equivalents and marketable securities on our Consolidated Balance Sheets. The value of our investments may be adversely affected by interest rate fluctuations, downgrades in credit ratings, illiquidity in the capital markets and other factors that may result in other-than-temporary declines in the value of our investments. Any of those events could cause us to record impairment charges with respect to our investment portfolio or to realize losses on sales of investments.

Our stock price is volatile.

Our stock price, like that of our peers in the biotechnology and pharmaceutical industries, is volatile. Our revenues and operating results may fluctuate from period to period for a number of reasons. Events such as a delay in product development, changes to our expectations or strategy or even a relatively small revenue shortfall may cause financial results for a period to be below our expectations or projections. As a result, our revenues and operating results and, in turn, our stock price may be subject to significant fluctuations. Announcements or discussions of possible restrictive actions by government or private payers that would impact our business or industry if ultimately enacted or adopted may also cause our stock price to fluctuate, whether or not such restrictive actions ever actually occur. Similarly, actual or perceived safety issues with our products or similar products or unexpected clinical trial results can have an immediate and rapid impact on our stock price, whether or not our operating results are materially impacted.

We may not be able to access the capital and credit markets on terms that are favorable to us, or at all.

The capital and credit markets may experience extreme volatility and disruption which may lead to uncertainty and liquidity issues for both borrowers and investors. We expect to access the capital markets to supplement our existing funds and cash generated from operations in satisfying our needs for working capital; capital expenditure and debt service requirements; our plans to pay dividends and repurchase stock; and other business initiatives we plan to strategically pursue, including acquisitions and licensing activities. In the event of adverse capital and credit market conditions, we may be unable to obtain capital market financing on similar favorable terms, or at all, which could have a material adverse effect on our business and results of operations. Changes in credit ratings issued by nationally recognized credit-rating agencies could adversely affect our ability to obtain capital market financing and the cost of such financing and have an adverse effect on the market price of our securities.

Item 1B. UNRESOLVED STAFF COMMENTS

None.

Item 2. PROPERTIES

As of December 31, 2017, we owned or leased approximately 180 properties. The locations and primary functions of significant properties are summarized in the following tables:

| <u>U.S. Location:</u> | Manufacturing | Administrative | Research and/or development | Sales and marketing | Warehouse | Distribution center |
|-----------------------|---------------|----------------|-----------------------------|---------------------|-----------|---------------------|
| Thousand Oaks, CA* | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| San Francisco, CA | | | ✓ | | | |
| Longmont, CO** | ✓ | | | | ✓ | |
| Louisville, KY | | | | | ✓ | ✓ |
| Cambridge, MA | | | ✓ | | | |
| Woburn, MA | ✓ | ✓ | | | ✓ | |
| Juncos, Puerto Rico | ✓ | ✓ | | | ✓ | ✓ |
| West Greenwich, RI | ✓ | ✓ | | | ✓ | |
| Other U.S. cities | | ✓ | | ✓ | | |

| <u>Ex-U.S. Location:</u> | Manufacturing | Administrative | Research and/or development | Sales and marketing | Warehouse | Distribution center |
|--------------------------|---------------|----------------|-----------------------------|---------------------|-----------|---------------------|
| Brazil | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Canada | | ✓ | ✓ | ✓ | | |
| China | | ✓ | ✓ | ✓ | | |
| Germany | | ✓ | ✓ | ✓ | | |
| Iceland | | ✓ | ✓ | | | |
| Ireland | ✓ | ✓ | | ✓ | ✓ | |
| Japan | | ✓ | ✓ | ✓ | | |
| Netherlands | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Singapore | ✓ | ✓ | | | ✓ | |
| Switzerland | | ✓ | | ✓ | | |
| Turkey | ✓ | ✓ | | ✓ | ✓ | ✓ |
| United Kingdom | | ✓ | ✓ | ✓ | | |
| Other countries | | ✓ | ✓ | ✓ | ✓ | |

* Corporate headquarters

** Property was sold and under a lease-back agreement as of December 31, 2017.

Excluded from the tables above are (i) undeveloped land and leased properties that have been abandoned and (ii) certain buildings that we still own but are no longer used in our business. There are no material encumbrances on our owned properties.

We believe that our facilities are suitable for their intended uses and, in conjunction with our third-party contracting manufacturing agreements, provide adequate capacity and are sufficient to meet our expected needs. See Item 1A. Risk Factors for a discussion of the factors that could adversely impact our manufacturing operations and the global supply of our products.

See Item 1. Business—Manufacturing, Distribution and Raw Materials.

Item 3. LEGAL PROCEEDINGS

Certain of the legal proceedings in which we are involved are discussed in Part IV—Note 18, Contingencies and commitments, to the Consolidated Financial Statements, and are hereby incorporated by reference.

Item 4. MINE SAFETY DISCLOSURES

Not applicable.

PART II

Item 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Common stock

Our common stock trades on the NASDAQ Global Select Market under the symbol AMGN. As of February 9, 2018, there were approximately 6,070 holders of record of our common stock.

The following table sets forth, for the periods indicated, the range of high and low quarterly closing sales prices of the common stock as quoted on the NASDAQ Global Select Market:

| <u>Year ended December 31, 2017</u> | <u>High</u> | <u>Low</u> |
|--|--------------------|-------------------|
| Fourth quarter | \$ 188.59 | \$ 168.79 |
| Third quarter | \$ 191.00 | \$ 167.29 |
| Second quarter | \$ 174.07 | \$ 153.02 |
| First quarter | \$ 182.60 | \$ 150.73 |

| <u>Year ended December 31, 2016</u> | | |
|--|-----------|-----------|
| Fourth quarter | \$ 168.31 | \$ 135.22 |
| Third quarter | \$ 175.62 | \$ 154.27 |
| Second quarter | \$ 164.35 | \$ 144.58 |
| First quarter | \$ 158.34 | \$ 140.90 |

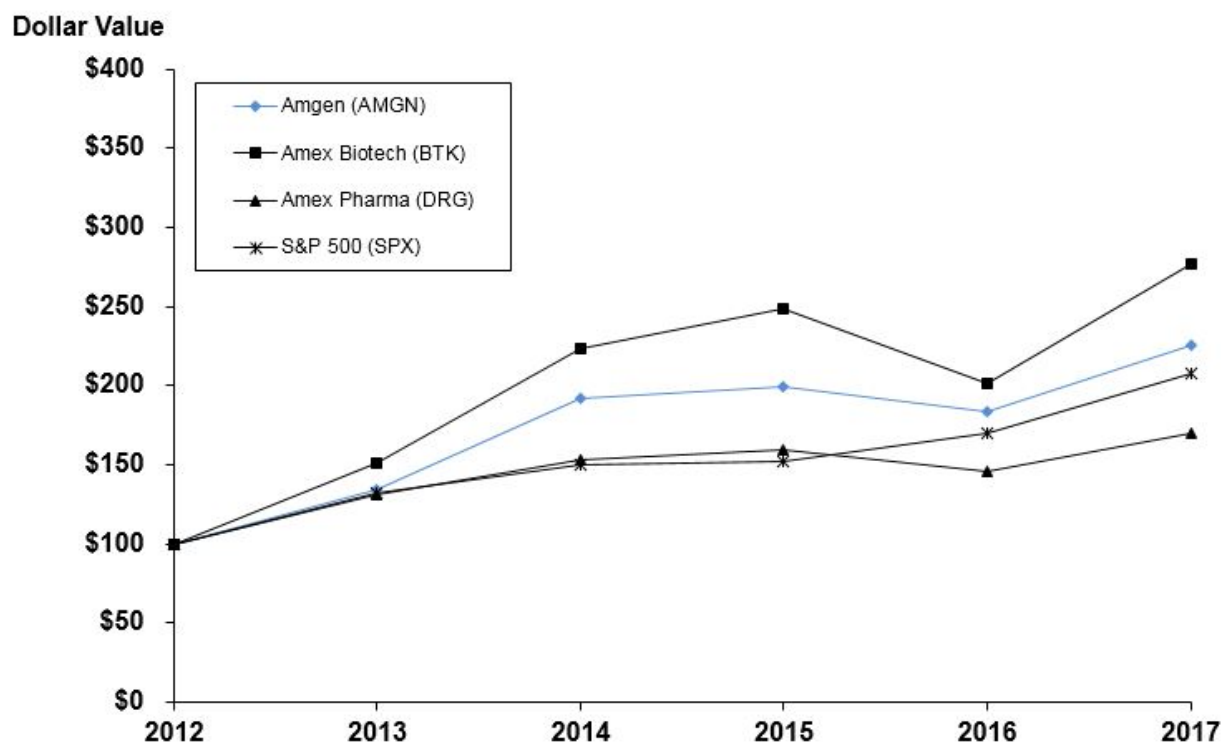
Performance graph

The following graph shows the value of an investment of \$100 on December 31, 2012, in each of Amgen common stock, the Amex Biotech Index, the Amex Pharmaceutical Index and Standard & Poor’s 500 Index (S&P 500). All values assume reinvestment of the pretax value of dividends and are calculated as of December 31 of each year. The historical stock price performance of the Company’s common stock shown in the performance graph is not necessarily indicative of future stock price performance.

Amgen vs. Amex Biotech, Amex Pharmaceutical and S&P 500 Indices

Comparison of Five-Year Cumulative Total Return

Value of Investment of \$100 on December 31, 2012



| | 12/31/2012 | 12/31/2013 | 12/31/2014 | 12/31/2015 | 12/31/2016 | 12/31/2017 |
|---------------------------|------------|------------|------------|------------|------------|------------|
| Amgen (AMGN) | \$100.00 | \$134.52 | \$191.45 | \$199.05 | \$184.03 | \$225.10 |
| Amex Biotech (BTK) | \$100.00 | \$150.77 | \$223.02 | \$248.42 | \$200.85 | \$276.79 |
| Amex Pharmaceutical (DRG) | \$100.00 | \$131.22 | \$152.97 | \$159.36 | \$146.07 | \$170.36 |
| S&P 500 (SPX) | \$100.00 | \$132.04 | \$150.11 | \$152.17 | \$170.36 | \$207.65 |

The material in this performance graph is not soliciting material, is not deemed filed with the SEC, and is not incorporated by reference in any filing of the Company under the Securities Act or the Exchange Act, whether made on, before or after the date of this filing and irrespective of any general incorporation language in such filing.

Stock repurchase program

During the three months and year ended December 31, 2017, we had one outstanding stock repurchase program, under which the repurchasing activity was as follows:

| | Total number of shares purchased | Average price paid per share ⁽¹⁾ | Total number of shares purchased as part of publicly announced program | Maximum dollar value that may yet be purchased under the program ⁽²⁾ |
|--------------------------|----------------------------------|---|--|---|
| October 1 - October 31 | 1,315,799 | \$ 181.90 | 1,315,799 | \$ 3,420,112,053 |
| November 1 - November 30 | 1,851,275 | \$ 171.44 | 1,851,275 | \$ 4,609,000,103 |
| December 1 - December 31 | 1,354,857 | \$ 176.55 | 1,354,857 | \$ 4,369,804,885 |
| | 4,521,931 | \$ 176.01 | 4,521,931 | |
| January 1 - December 31 | 18,528,595 | \$ 168.71 | 18,528,595 | |

⁽¹⁾ Average price paid per share includes related expenses.

⁽²⁾ In October 2017, our Board of Directors authorized an increase that resulted in a total of \$5.0 billion available under our stock repurchase program. In January 2018, our Board of Directors authorized an additional \$10.0 billion under our stock repurchase program.

Dividends

For the years ended December 31, 2017 and 2016, we paid quarterly dividends. We expect to continue to pay quarterly dividends, although the amount and timing of any future dividends are subject to approval by our Board of Directors. Additional information required by this item is incorporated herein by reference to Part IV—Note 15, Stockholders' equity, to the Consolidated Financial Statements.

Securities Authorized for Issuance Under Existing Equity Compensation Plans

Information about securities authorized for issuance under existing equity compensation plans is incorporated by reference from Item 12—Securities Authorized for Issuance Under Existing Equity Compensation Plans.

Item 6. SELECTED FINANCIAL DATA

| Consolidated Statements of Income Data: | Years ended December 31, | | | | |
|--|---|-------------|-------------|-------------|-------------|
| | 2017 | 2016 | 2015 | 2014 | 2013 |
| | (In millions, except per share data) | | | | |
| Revenues: | | | | | |
| Product sales | \$ 21,795 | \$ 21,892 | \$ 20,944 | \$ 19,327 | \$ 18,192 |
| Other revenues | 1,054 | 1,099 | 718 | 736 | 484 |
| Total revenues | \$ 22,849 | \$ 22,991 | \$ 21,662 | \$ 20,063 | \$ 18,676 |
| Operating expenses: | | | | | |
| Cost of sales | \$ 4,069 | \$ 4,162 | \$ 4,227 | \$ 4,422 | \$ 3,346 |
| Research and development | \$ 3,562 | \$ 3,840 | \$ 4,070 | \$ 4,297 | \$ 4,083 |
| Selling, general and administrative | \$ 4,870 | \$ 5,062 | \$ 4,846 | \$ 4,699 | \$ 5,184 |
| Net income ⁽¹⁾ | \$ 1,979 | \$ 7,722 | \$ 6,939 | \$ 5,158 | \$ 5,081 |
| Diluted earnings per share ⁽¹⁾ | \$ 2.69 | \$ 10.24 | \$ 9.06 | \$ 6.70 | \$ 6.64 |
| Dividends paid per share | \$ 4.60 | \$ 4.00 | \$ 3.16 | \$ 2.44 | \$ 1.88 |
| Consolidated Balance Sheets Data: | As of December 31, | | | | |
| | 2017 | 2016 | 2015 | 2014 | 2013 |
| | (In millions) | | | | |
| Total assets | \$ 79,954 | \$ 77,626 | \$ 71,449 | \$ 68,882 | \$ 65,974 |
| Total debt ⁽²⁾ | \$ 35,342 | \$ 34,596 | \$ 31,429 | \$ 30,588 | \$ 31,977 |
| Total stockholders' equity ⁽³⁾ | \$ 25,241 | \$ 29,875 | \$ 28,083 | \$ 25,778 | \$ 22,096 |

In addition to the following notes, see Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations and the Consolidated Financial Statements and accompanying notes and previously filed Annual Reports on Form 10-K for further information regarding our consolidated results of operations and financial position for periods reported therein and for known factors that will affect the comparability of future results. Also, see Part IV—Note 15, Stockholders' equity, to the Consolidated Financial Statements, for information regarding cash dividends declared per share of common stock for each of the four quarters of 2017, 2016, and 2015, respectively. In addition, our Board of Directors declared dividends per share of \$0.61 and \$0.47 that were paid in each of the four quarters of 2014 and 2013, respectively.

⁽¹⁾ In 2017, we recorded a net charge of \$6.1 billion as a result of the 2017 Tax Act. See Part IV—Note 5, Income taxes, to the Consolidated Financial Statements.

⁽²⁾ See Part IV—Note 14, Financing arrangements, to the Consolidated Financial Statements, for discussion of our financing arrangements. In 2014, we issued \$4.5 billion of debt and repaid \$5.6 billion of debt. In 2013, we issued \$8.1 billion of debt and repaid of \$3.4 billion of debt.

⁽³⁾ Throughout the five years ended December 31, 2017, we had a stock repurchase program authorized by the Board of Directors through which we repurchased \$3.1 billion, \$3.0 billion, \$1.9 billion, \$0.2 billion and \$0.8 billion, respectively, of Amgen common stock.

Item 7. MANAGEMENT’S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following management’s discussion and analysis (MD&A) is intended to assist the reader in understanding Amgen’s business. MD&A is provided as a supplement to, and should be read in conjunction with, our consolidated financial statements and accompanying notes. Our results of operations discussed in MD&A are presented in conformity with U.S. generally accepted accounting principles (GAAP). Amgen operates in one business segment: human therapeutics. Therefore, our results of operations are discussed on a consolidated basis.

Forward-looking statements

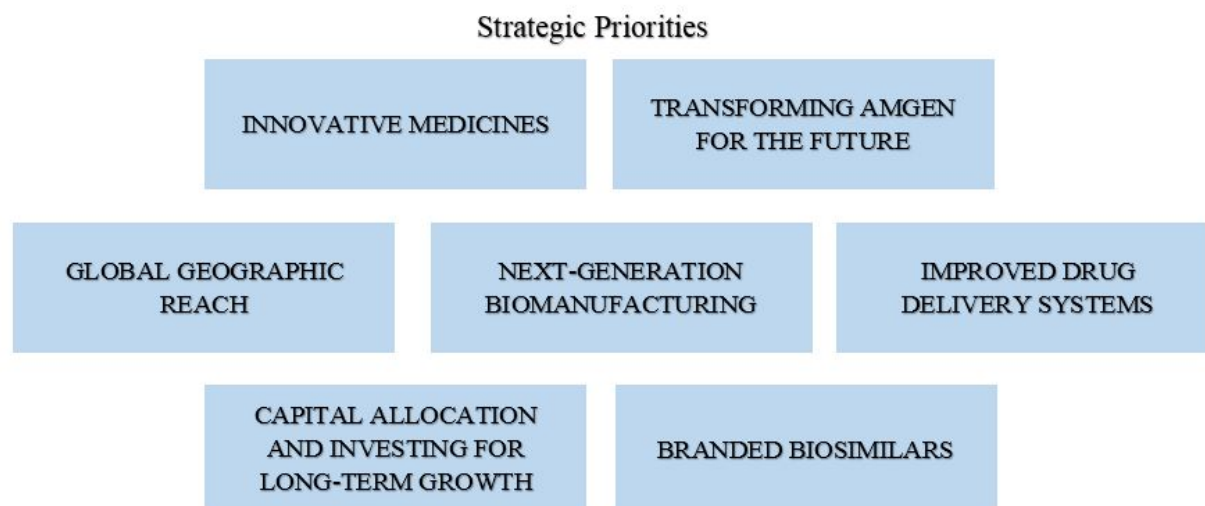
This report and other documents we file with the SEC contain forward-looking statements that are based on current expectations, estimates, forecasts and projections about us, our future performance, our business, our beliefs and our management’s assumptions. In addition, we, or others on our behalf, may make forward-looking statements in press releases or written statements, or in our communications and discussions with investors and analysts in the normal course of business through meetings, webcasts, phone calls and conference calls. Such words as “expect,” “anticipate,” “outlook,” “could,” “target,” “project,” “intend,” “plan,” “believe,” “seek,” “estimate,” “should,” “may,” “assume,” and “continue,” as well as variations of such words and similar expressions are intended to identify such forward-looking statements. These statements are not guarantees of future performance and they involve certain risks, uncertainties and assumptions that are difficult to predict. We describe our respective risks, uncertainties and assumptions that could affect the outcome or results of operations in Item 1A. Risk Factors. We have based our forward-looking statements on our management’s beliefs and assumptions based on information available to our management at the time the statements are made. We caution you that actual outcomes and results may differ materially from what is expressed, implied or forecast by our forward-looking statements. Reference is made in particular to forward-looking statements regarding product sales, regulatory activities, clinical trial results, reimbursement, expenses, earnings per share (EPS), liquidity and capital resources, trends, planned dividends, stock repurchases and restructuring plans. Except as required under the federal securities laws and the rules and regulations of the SEC, we do not have any intention or obligation to update publicly any forward-looking statements after the distribution of this report, whether as a result of new information, future events, changes in assumptions or otherwise.

Overview

Amgen is a highly focused biotechnology company committed to unlocking the potential of biology for patients suffering from serious illnesses. A biotechnology pioneer since 1980, Amgen has grown to be one of the world's leading independent biotechnology companies, has reached millions of patients around the world and is developing a pipeline of medicines with breakaway potential.

Our principal products (those products with the most significant annual commercial sales) include ENBREL, Neulasta®, Aranesp®, Prolia®, Sensipar®/Mimpara®, XGEVA® and EPOGEN®. We also market a number of other products, including KYPROLIS®, Vectibix®, Nplate®, NEUPOGEN®, Repatha®, BLINCYTO®, IMLYGIC®, Corlanor® and Parsabiv™. For additional information about our products, see Part I, Item 1. Business—Marketing, Distribution and Selected Marketed Products.

Six therapeutic areas form the core of our business—oncology/hematology, cardiovascular disease, inflammation, bone health, nephrology and neuroscience. Our strategy to execute in these therapeutic areas is multifaceted as we engage in a series of integrated activities to strengthen our competitive position in the industry focused on seven strategic priorities:



In 2017, we made substantial progress on our strategic priorities.

- Our innovative pipeline continued to advance with the addition of cardiovascular outcomes data to the Repatha® label in the United States. The FDA also approved Parsabiv™ for secondary hyperparathyroidism in hemodialysis patients and Vectibix®, in combination with chemotherapy, for use in wild-type *RAS* metastatic colorectal cancer, and expanded the BLINCYTO® indication to include the treatment of relapsed or refractory B-cell precursor ALL in adults and children. We submitted the U.S. regulatory filing for Aimovig™ for the prevention of migraine in patients experiencing four or more migraines per month. We also made U.S. and EU regulatory filings to include overall survival data in the KYPROLIS® label for relapsed or refractory multiple myeloma patients and to expand the XGEVA® indication to include the prevention of SREs in patients with multiple myeloma. We announced positive phase 3 results for a weekly regimen of KYPROLIS® for the treatment of relapsed or refractory multiple myeloma and positive phase 2b results with tezepelumab, which has now advanced into Phase 3 for the treatment of severe, uncontrolled asthma. Throughout the course of the year, we invested in external early-stage innovation to augment our internal research efforts.
- Our biosimilars also continued to advance as the FDA approved MVASI™ for the treatment of five types of cancer, and the EC approved AMGEVITA™ for the treatment of certain inflammatory diseases. We also gained clarity on the launch timing of AMGEVITA™, which is now expected in Europe later this year and we submitted U.S. and EU regulatory filings for ABP 980.
- We continued to build the foundation for long-term growth through our product launches in new parts of the world, as seen by our ability to secure 80 country product launches, leveraging our global presence to deliver the potential of our products to patients.

- We continued to provide an uninterrupted supply of medicines for patients around the world while responding to natural disasters and investing for the future.
 - In September 2017, Hurricane Maria made landfall on the island of Puerto Rico. The hurricane caused widespread damage to the island, however, the critical manufacturing areas of our site in Juncos were not significantly impacted and we have resumed our full manufacturing operations.
 - We made investments in next-generation biomanufacturing that build on our expertise in human biology and protein manufacturing. This next-generation biomanufacturing dramatically reduces the scale and costs of making biologics while retaining a reliable, high-quality, compliant supply of medicines. In 2017, our new Singapore facility that uses our next-generation biomanufacturing technology was approved for certain commercial production by multiple regulatory agencies, including the FDA and the EMA.
- We continued to innovate with delivery systems to differentiate our products, as seen by our development of the AutoTouch™ reusable auto-injector to be used with Enbrel Mini™ single-dose prefilled cartridges (50 mg/mL), which was approved by the FDA in September 2017. This device was ergonomically designed to meet the needs of rheumatoid arthritis patients. We also launched our Repatha® automated mini-doser with pre-filled cartridge in Europe. This hands-free device provides Repatha® in a single injection for administration monthly. Further, the use of the Neulasta® Onpro® On-body Injector continues to increase, exiting 2017 with over 60% share of Neulasta® sales.
- Cash flows from operating activities grew 8% to \$11.2 billion, enabling us to invest for the future and return capital to shareholders, consistent with our expectations for long-term growth. We increased our dividend 15% to \$1.15 per share of common stock in each of the four quarters of 2017. In December 2017, the Board of Directors declared a cash dividend of \$1.32 per share of common stock for the first quarter of 2018, an increase of 15% for this period, to be paid in March 2018. We also repurchased 18.5 million shares of our common stock throughout 2017 at an aggregate cost of \$3.1 billion.
- We further optimized our business and operating model through significant transformation and process improvement efforts. Our transformation has established a foundation for growth and we are approaching the development of promising new medicines with greater understanding, speed and confidence.

Our 2017 financial results also reflect the impact of the 2017 Tax Act. We now have global access to our \$41.7 billion balance of cash, cash equivalents and marketable securities, which unlocks additional financial flexibility.

While 2017 execution was strong, we expect 2018 will be another important year as we continue to invest in the pipeline, build our global business and support new product growth. In preparation for 2018, we expanded our transformation activities and savings initiatives to enable investment in new products and the defense of existing products to optimize long- and short-term growth. Our long-term success depends, to a great extent, on our ability to continue to discover, develop and commercialize innovative products and acquire or collaborate on therapies currently in development by other companies. We must develop new products over time in order to provide for revenue growth and to offset revenue losses when products lose their exclusivity or competing products are launched. Certain of our products will face increasing pressure from competition, including biosimilars and generics. For additional information, including information on the expiration of patents for various products, see Part I, Item 1. Business—Marketing, Distribution and Selected Marketed Products—Patents and see Part I, Item 1. Business—Marketing, Distribution and Selected Marketed Products—Competition. We devote considerable resources to R&D activities. However, successful product development in the biotechnology industry is highly uncertain. We are also confronted by increasing regulatory scrutiny of safety and efficacy both before and after products launch.

Rising healthcare costs and economic conditions also continue to pose challenges to our business, including continued pressure by third-party payers, such as governments and private payers, to reduce healthcare expenditures. As a result of public and private health care provider focus, the industry continues to experience significant pricing pressures and other cost containment measures.

Finally, wholesale and end-user buying patterns can affect our product sales. These effects can cause fluctuations in quarterly product sales and have generally not been significant when comparing full-year product performance to the prior year. See Part I, Item 1. Business—Marketing, Distribution and Selected Marketed Products and Part I, Item 1A. Risk Factors for further discussion of certain of the factors that could impact our future product sales.

Selected Financial Information

The following is an overview of our results of operations (in millions, except percentages and per share data):

| | Year ended December 31, 2017 | Change | Year ended December 31, 2016 |
|---------------------|---------------------------------|--------|---------------------------------|
| Product sales: | | | |
| U.S. | \$ 17,131 | (1)% | \$ 17,325 |
| Rest of world (ROW) | 4,664 | 2 % | 4,567 |
| Total product sales | 21,795 | — % | 21,892 |
| Other revenues | 1,054 | (4)% | 1,099 |
| Total revenues | \$ 22,849 | (1)% | \$ 22,991 |
| Operating expenses | \$ 12,876 | (2)% | \$ 13,197 |
| Operating income | \$ 9,973 | 2 % | \$ 9,794 |
| Net income | \$ 1,979 | (74)% | \$ 7,722 |
| Diluted EPS | \$ 2.69 | (74)% | \$ 10.24 |
| Diluted shares | 735 | (3)% | 754 |

In the following discussion of changes in product sales, any reference to unit demand growth or decline refers to changes in the purchases of our products by healthcare providers, such as physicians or their clinics, dialysis centers, hospitals and pharmacies.

Total product sales for 2017 decreased slightly as a decline in U.S. product sales was offset partially by an increase in ROW product sales. The U.S. decrease was driven primarily by lower unit demand resulting from competition, offset partially by increases in net selling prices and favorable changes in inventory. The increase in ROW product sales for 2017 was driven primarily by higher unit demand, offset partially by unfavorable changes in foreign exchange rates and declines in net selling prices.

Operating expenses for 2017 decreased 2%. All expense categories benefited from savings resulting from our transformation and process improvement efforts.

Although changes in foreign currency exchange rates result in increases or decreases in our reported international product sales, the benefit or detriment that such movements have on our international product sales is offset partially by corresponding increases or decreases in our international operating expenses and our related foreign currency hedging activities. Our hedging activities seek to offset the impacts, both positive and negative, that foreign currency exchange rate changes may have on our net income by hedging our net foreign currency exposure, primarily with respect to product sales denominated in euros. The net impact from changes in foreign currency exchange rates was not material in 2017, 2016 or 2015.

Results of Operations

Product sales

Worldwide product sales were as follows (dollar amounts in millions):

| | Year ended December 31, 2017 | Change | Year ended December 31, 2016 | Change | Year ended December 31, 2015 |
|---------------------|---------------------------------|------------|---------------------------------|------------|---------------------------------|
| ENBREL | \$ 5,433 | (9)% | \$ 5,965 | 11 % | \$ 5,364 |
| Neulasta® | 4,534 | (2)% | 4,648 | (1)% | 4,715 |
| Aranesp® | 2,053 | (2)% | 2,093 | 7 % | 1,951 |
| Prolia® | 1,968 | 20 % | 1,635 | 25 % | 1,312 |
| Sensipar®/Mimpara® | 1,718 | 9 % | 1,582 | 12 % | 1,415 |
| XGEVA® | 1,575 | 3 % | 1,529 | 9 % | 1,405 |
| EPOGEN® | 1,096 | (15)% | 1,282 | (31)% | 1,856 |
| Other products | 3,418 | 8 % | 3,158 | 8 % | 2,926 |
| Total product sales | <u>\$ 21,795</u> | <u>— %</u> | <u>\$ 21,892</u> | <u>5 %</u> | <u>\$ 20,944</u> |
| Total U.S. | \$ 17,131 | (1)% | \$ 17,325 | 5 % | \$ 16,523 |
| Total ROW | 4,664 | 2 % | 4,567 | 3 % | 4,421 |
| Total product sales | <u>\$ 21,795</u> | <u>— %</u> | <u>\$ 21,892</u> | <u>5 %</u> | <u>\$ 20,944</u> |

Future sales of our products will depend, in part, on the factors discussed in the Overview, Part I, Item 1. Business—Marketing, Distribution and Selected Marketed Products—Competition, in Part I, Item 1A. Risk Factors, and any additional factors discussed in the individual product sections below. In addition, for a list of our products' significant competitors, see Part I, Item 1. Business—Marketing, Distribution and Selected Marketed Products—Competition.

ENBREL

Total ENBREL sales by geographic region were as follows (dollar amounts in millions):

| | Year ended December 31, 2017 | Change | Year ended December 31, 2016 | Change | Year ended December 31, 2015 |
|-----------------|---------------------------------|-------------|---------------------------------|-------------|---------------------------------|
| ENBREL — U.S. | \$ 5,206 | (9)% | \$ 5,719 | 12 % | \$ 5,099 |
| ENBREL — Canada | 227 | (8)% | 246 | (7)% | 265 |
| Total ENBREL | <u>\$ 5,433</u> | <u>(9)%</u> | <u>\$ 5,965</u> | <u>11 %</u> | <u>\$ 5,364</u> |

The decrease in ENBREL sales for 2017 was driven primarily by lower unit demand and net selling price, offset partially by an increase in inventory. For 2018, we expect the trends of lower unit demand and net selling price to continue.

The increase in ENBREL sales for 2016 was driven primarily by an increase in net selling price, offset partially by the impact of competition.

Neulasta®

Total Neulasta® sales by geographic region were as follows (dollar amounts in millions):

| | Year ended December 31, 2017 | Change | Year ended December 31, 2016 | Change | Year ended December 31, 2015 |
|------------------|---------------------------------|-------------|---------------------------------|-------------|---------------------------------|
| Neulasta® — U.S. | \$ 3,931 | — % | \$ 3,925 | 1 % | \$ 3,891 |
| Neulasta® — ROW | 603 | (17)% | 723 | (12)% | 824 |
| Total Neulasta® | <u>\$ 4,534</u> | <u>(2)%</u> | <u>\$ 4,648</u> | <u>(1)%</u> | <u>\$ 4,715</u> |

The decreases in global Neulasta® sales for 2017 and 2016 were driven primarily by lower unit demand, offset partially by an increase in net selling price in the United States. As of the end of December 2017, utilization of the Neulasta® Onpro® kit continues to grow in the United States.

Our final material U.S. patent for Neulasta[®] expired in October 2015. Therefore, we expect to face competition in the United States, which over time may have a material adverse impact on future sales of Neulasta[®]. Multiple companies have announced applications to the FDA for proposed biosimilar versions of Neulasta[®]. While a number of these companies have announced receipt of Complete Response Letters from the FDA regarding their applications, certain of these companies may receive approval in 2018. For discussion of ongoing patent litigations with these and other companies developing proposed biosimilar versions of Neulasta[®], see Part IV—Note 18, Contingencies and commitments, to the Consolidated Financial Statements.

In addition, supplementary protection certificates issued by certain countries, including France, Germany, Italy, Spain and the United Kingdom, relating to our European patent for Neulasta[®] expired in August 2017. For further information regarding our patents, see Part I, Item 1. Business—Marketing, Distribution and Selected Marketed Products—Patents.

Neulasta[®] sales have been and will continue to be impacted by the development of new protocols, tests and/or treatments for cancer and/or new treatment alternatives that have reduced and may continue to reduce the use of myelosuppressive regimens in some patients.

Aranesp[®]

Total Aranesp[®] sales by geographic region were as follows (dollar amounts in millions):

| | Year ended December 31, 2017 | Change | Year ended December 31, 2016 | Change | Year ended December 31, 2015 |
|----------------------------------|---------------------------------|-------------|---------------------------------|------------|---------------------------------|
| Aranesp [®] — U.S. | \$ 1,114 | 3 % | \$ 1,082 | 20 % | \$ 900 |
| Aranesp [®] — ROW | 939 | (7)% | 1,011 | (4)% | 1,051 |
| Total Aranesp[®] | \$ 2,053 | (2)% | \$ 2,093 | 7 % | \$ 1,951 |

The decrease in global Aranesp[®] sales for 2017 was driven primarily by unfavorable changes in foreign currency exchange rates, offset partially by higher unit demand, including a shift of some U.S. dialysis centers from EPOGEN[®].

The increase in global Aranesp[®] sales for 2016 was driven primarily by higher unit demand, including a shift of some U.S. dialysis centers from EPOGEN[®], offset partially by a decrease in net selling price in ROW.

For 2018, we expect Aranesp[®] to face increasing competition from branded products. We could also face competition from biosimilar versions of EPOGEN[®] in 2018 if they launch in the United States.

Prolia[®]

Total Prolia[®] sales by geographic region were as follows (dollar amounts in millions):

| | Year ended December 31, 2017 | Change | Year ended December 31, 2016 | Change | Year ended December 31, 2015 |
|---------------------------------|---------------------------------|------------|---------------------------------|------------|---------------------------------|
| Prolia [®] — U.S. | \$ 1,272 | 21% | \$ 1,049 | 25% | \$ 837 |
| Prolia [®] — ROW | 696 | 19% | 586 | 23% | 475 |
| Total Prolia[®] | \$ 1,968 | 20% | \$ 1,635 | 25% | \$ 1,312 |

The increases in global Prolia[®] sales for 2017 and 2016 were driven primarily by higher unit demand.

Sensipar[®]/Mimpara[®]

Total Sensipar[®]/Mimpara[®] sales by geographic region were as follows (dollar amounts in millions):

| | Year ended December 31, 2017 | Change | Year ended December 31, 2016 | Change | Year ended December 31, 2015 |
|---|---------------------------------|-----------|---------------------------------|-------------|---------------------------------|
| Sensipar [®] — U.S. | \$ 1,374 | 11% | \$ 1,240 | 16 % | \$ 1,069 |
| Sensipar [®] /Mimpara [®] — ROW | 344 | 1% | 342 | (1)% | 346 |
| Total Sensipar[®]/Mimpara[®] | \$ 1,718 | 9% | \$ 1,582 | 12 % | \$ 1,415 |

The increases in global Sensipar[®]/Mimpara[®] sales for 2017 and 2016 were driven primarily by an increase in net selling price in the United States and, to a lesser extent, higher unit demand.

Our U.S. composition of matter patent relating to Sensipar[®], a small molecule, expires in March 2018. We are also involved in a number of litigation matters relating to Sensipar[®], including patent litigations with a number of companies seeking to market generic versions of Sensipar[®] and litigation regarding our request for pediatric exclusivity for Sensipar[®]. See Part IV—Note 18, Contingencies and commitments, to the Consolidated Financial Statements.

XGEVA[®]

Total XGEVA[®] sales by geographic region were as follows (dollar amounts in millions):

| | Year ended December 31, 2017 | Change | Year ended December 31, 2016 | Change | Year ended December 31, 2015 |
|--------------------------------|---------------------------------|-----------|---------------------------------|-----------|---------------------------------|
| XGEVA [®] — U.S. | \$ 1,157 | 4% | \$ 1,115 | 11% | \$ 1,006 |
| XGEVA [®] — ROW | 418 | 1% | 414 | 4% | 399 |
| Total XGEVA[®] | \$ 1,575 | 3% | \$ 1,529 | 9% | \$ 1,405 |

The increases in global XGEVA[®] sales for 2017 and 2016 were driven primarily by higher unit demand.

EPOGEN[®]

Total EPOGEN[®] sales were as follows (dollar amounts in millions):

| | Year ended December 31, 2017 | Change | Year ended December 31, 2016 | Change | Year ended December 31, 2015 |
|----------------------------|---------------------------------|--------|---------------------------------|--------|---------------------------------|
| EPOGEN [®] — U.S. | \$ 1,096 | (15)% | \$ 1,282 | (31)% | \$ 1,856 |

The decrease in EPOGEN[®] sales for 2017 was driven primarily by a decline in net selling price due to contractual terms negotiated with DaVita (see Part I, Item 1. Business—Business Relationships) and, to a lesser extent, a shift in some U.S. dialysis centers to Aranesp[®].

The decrease in EPOGEN[®] sales for 2016 was driven by a decline in unit demand resulting from competition and a shift in some U.S. dialysis centers to Aranesp[®].

Our final material U.S. patent for EPOGEN[®] expired in May 2015. We face competition in the United States, which has had, and will continue to have, a material adverse impact on sales of EPOGEN[®]. Multiple companies are developing proposed biosimilar versions of EPOGEN[®] and certain of these companies may receive approval in 2018. For discussion of ongoing patent litigation with this company, see Part IV—Note 18, Contingencies and commitments, to the Consolidated Financial Statements.

Other products

Other product sales by geographic region were as follows (dollar amounts in millions):

| | Year ended December 31, 2017 | Change | Year ended December 31, 2016 | Change | Year ended December 31, 2015 |
|-----------------------------|---------------------------------|------------|---------------------------------|------------|---------------------------------|
| KYPROLIS® — U.S. | \$ 562 | 1 % | \$ 554 | 19 % | \$ 467 |
| KYPROLIS® — ROW | 273 | 98 % | 138 | * | 45 |
| Vectibix® — U.S. | 251 | 10 % | 229 | 12 % | 204 |
| Vectibix® — ROW | 391 | 2 % | 382 | 11 % | 345 |
| Nplate® — U.S. | 392 | 12 % | 350 | 10 % | 317 |
| Nplate® — ROW | 250 | 7 % | 234 | 13 % | 208 |
| NEUPOGEN® — U.S. | 369 | (31)% | 534 | (33)% | 793 |
| NEUPOGEN® — ROW | 180 | (22)% | 231 | (10)% | 256 |
| Repatha® — U.S. | 225 | * | 101 | * | 7 |
| Repatha® — ROW | 94 | * | 40 | * | 3 |
| BLINCYTO® — U.S. | 114 | 34 % | 85 | 27 % | 67 |
| BLINCYTO® — ROW | 61 | * | 30 | * | 10 |
| Other — U.S. | 68 | 13 % | 60 | * | 10 |
| Other — ROW | 188 | (1)% | 190 | (2)% | 194 |
| Total other product sales | <u>\$ 3,418</u> | <u>8 %</u> | <u>\$ 3,158</u> | <u>8 %</u> | <u>\$ 2,926</u> |
| Total U.S. — other products | <u>\$ 1,981</u> | | <u>\$ 1,913</u> | | <u>\$ 1,865</u> |
| Total ROW — other products | <u>1,437</u> | | <u>1,245</u> | | <u>1,061</u> |
| Total other product sales | <u>\$ 3,418</u> | | <u>\$ 3,158</u> | | <u>\$ 2,926</u> |

* Change in excess of 100%

Operating expenses

Operating expenses were as follows (dollar amounts in millions):

| | Year ended December 31, 2017 | Change | Year ended December 31, 2016 | Change | Year ended December 31, 2015 |
|-------------------------------------|---------------------------------|--------|---------------------------------|--------|---------------------------------|
| Operating expenses: | | | | | |
| Cost of sales | \$ 4,069 | (2)% | \$ 4,162 | (2)% | \$ 4,227 |
| % of product sales | 18.7% | | 19.0% | | 20.2% |
| % of total revenues | 17.8% | | 18.1% | | 19.5% |
| Research and development | \$ 3,562 | (7)% | \$ 3,840 | (6)% | \$ 4,070 |
| % of product sales | 16.3% | | 17.5% | | 19.4% |
| % of total revenues | 15.6% | | 16.7% | | 18.8% |
| Selling, general and administrative | \$ 4,870 | (4)% | \$ 5,062 | 4 % | \$ 4,846 |
| % of product sales | 22.3% | | 23.1% | | 23.1% |
| % of total revenues | 21.3% | | 22.0% | | 22.4% |
| Other | \$ 375 | * | \$ 133 | * | \$ 49 |

* Change in excess of 100%

Transformation and process improvement

During 2014, we announced transformation and process improvement efforts that we continue to execute. As part of these efforts, we committed to a more agile and efficient operating model. Our transformation and process improvement efforts across the Company are enabling us to reallocate resources to fund many of our innovative pipeline and growth opportunities that deliver value to patients and stockholders.

The transformation includes a restructuring plan that we continue to estimate will result in pre-tax accounting charges in the range of \$825 million to \$900 million. As of December 31, 2017, restructuring costs incurred to date were \$797 million. During 2017, 2016 and 2015, we incurred restructuring costs of \$88 million, \$37 million and \$114 million, respectively. We expect that we will incur most of the remaining estimated costs in 2018 in order to support our ongoing transformation and process improvement efforts. Since 2014, we have realized approximately \$1.5 billion of transformation and process improvement savings. Net savings have not been significant as savings were reinvested in product launches, clinical programs and external business development. Additional information required for our restructuring plan is incorporated herein by reference to Part IV—Note 2, Restructuring, to the Consolidated Financial Statements.

Puerto Rico operations

In September 2017, Hurricane Maria made landfall on the island of Puerto Rico. The hurricane caused widespread damage to the island and some damage to our facility in Juncos. Critical manufacturing areas of our facility were not significantly affected, and we have resumed our full manufacturing operations. Further recovery efforts on the island are ongoing. We have continued to provide an uninterrupted supply of medicines for patients around the world. See Part I, Item 1A. Risk Factors—*We perform a substantial majority of our commercial manufacturing activities at our facility in the U.S. territory of Puerto Rico and substantially all of our clinical manufacturing activities at our facility in Thousand Oaks, California; significant disruptions or production failures at these facilities could significantly impair our ability to supply our products or continue our clinical trials.*

We incurred \$146 million of pre-tax expenses in 2017 related to Hurricane Maria. At this time, we do not expect significant pre-tax expenses in 2018.

Cost of sales

Cost of sales decreased to 17.8% of total revenues for 2017, driven primarily by lower amortization of intangible assets, lower royalties and favorable manufacturing costs, offset partially by expenses related to Hurricane Maria, unfavorable product mix and other inventory costs.

Cost of sales decreased to 18.1% of total revenues for 2016, driven primarily by certain manufacturing efficiencies.

Research and development

The Company groups all of its R&D activities and related expenditures into three categories: (1) Discovery Research and Translational Sciences (DRTS), (2) later-stage clinical programs and (3) marketed products. These categories include the Company's R&D activities as set forth in the following table:

| Category | Description |
|-------------------------------|---|
| DRTS | R&D expenses incurred in activities substantially in support of early research through the completion of phase 1 clinical trials. These activities encompass our DRTS functions, including drug discovery, toxicology, pharmacokinetics and drug metabolism, and process development. |
| Later-stage clinical programs | R&D expenses incurred in or related to phase 2 and phase 3 clinical programs intended to result in registration of a new product or a new indication for an existing product in the United States or the EU. |
| Marketed products | R&D expenses incurred in support of the Company's marketed products that are authorized to be sold in the United States or the EU. Includes clinical trials designed to gather information on product safety (certain of which may be required by regulatory authorities) and their product characteristics after regulatory approval has been obtained, as well as the costs of obtaining regulatory approval of a product in a new market after approval in either the United States or the EU has been obtained. |

R&D expense by category was as follows (in millions):

| | Years ended December 31, | | |
|-------------------------------|--------------------------|-----------------|-----------------|
| | 2017 | 2016 | 2015 |
| DRTS | \$ 972 | \$ 1,039 | \$ 997 |
| Later-stage clinical programs | 879 | 1,054 | 1,876 |
| Marketed products | 1,711 | 1,747 | 1,197 |
| Total R&D expense | <u>\$ 3,562</u> | <u>\$ 3,840</u> | <u>\$ 4,070</u> |

The decrease in R&D expenses for 2017 was driven by decreased costs associated with later-stage clinical program support, lower external business development expense in DRTS and lower marketed-product support. All categories of R&D spend benefited from savings from transformation and process improvement efforts and we continue to advance our pipeline.

The decrease in R&D expenses for 2016 was driven primarily by decreased costs associated with later-stage clinical programs support of \$822 million, offset partially by increased costs associated with marketed-products support of \$550 million. All categories of R&D spend benefited from savings from transformation and process improvement efforts. The decrease was offset partially by reinvestment for the long-term benefit of the company, including an increase in DRTS for up-front milestone payments related to several collaboration transactions. Prior to approval, costs related to our launch products were categorized largely as later-stage clinical programs.

Selling, general and administrative

The decrease in Selling, general and administrative (SG&A) expense for 2017 was driven primarily by the expiration of the ENBREL residual royalty payments on October 31, 2016, offset partially by investments in product launch and marketed product support.

The increase in SG&A expense for 2016 was driven primarily by further investments in product launches, offset partially by the expiration of the ENBREL residual royalty payments on October 31, 2016.

The ENBREL co-promotion term expired in October 2013, and we were required to pay Pfizer residual royalties on a declining percentage of net ENBREL sales in the United States and Canada. Effective November 2016, there were no further residual royalty payments. The residual royalty percentage ranged from 10% to 11% in 2016 and 2015.

Other

Other operating expenses for 2017 included \$284 million of net charges associated with the discontinuance of the internal development of AMG 899 and \$83 million of certain net charges related to our restructuring plan. See Part IV—Note 3, Business combinations, to the Consolidated Financial Statements.

Other operating expenses for 2016 included \$105 million of charges related to legal proceedings.

Other operating expenses for 2015 included \$91 million of charges related to legal proceedings; certain charges related to our restructuring initiatives, including separation costs of \$49 million; \$31 million of write-offs of non-key assets acquired in a prior-year business combination; and \$111 million of gains from the sale of assets related to our site closures.

Non-operating expenses, income and provision for income taxes

Non-operating expenses, income and provision for income taxes were as follows (dollar amounts in millions):

| | Years ended December 31, | | |
|--------------------------------|--------------------------|----------|----------|
| | 2017 | 2016 | 2015 |
| Interest expense, net | \$ 1,304 | \$ 1,260 | \$ 1,095 |
| Interest and other income, net | \$ 928 | \$ 629 | \$ 603 |
| Provision for income taxes | \$ 7,618 | \$ 1,441 | \$ 1,039 |
| Effective tax rate | 79.4% | 15.7% | 13.0% |

Interest expense, net

The increases in interest expense, net in 2017 and 2016 were due primarily to a higher average amount of debt outstanding compared with the respective prior year.

Interest and other income, net

The increase in interest and other income, net for 2017 compared with 2016 was due primarily to higher interest income that resulted from higher average investment balances and higher gains on strategic investments.

The increase in interest and other income, net for 2016 compared with 2015 was due primarily to higher interest income as a result of higher average investment balances in 2016, offset partially by higher gains on strategic equity investments in 2015.

Income taxes

The increase in our effective tax rate for 2017 compared with 2016 was due primarily to impacts of the 2017 Tax Act, including the repatriation tax on accumulated foreign earnings, offset partially by the remeasurement of certain net deferred and other tax liabilities.

The increase in our effective tax rate for 2016 compared with 2015 was due primarily to the unfavorable tax impact of changes in jurisdictional mix of income and expenses, offset partially by the adoption of a new accounting standard that amends certain aspects of the accounting for employee share-based compensation payments. One aspect of the standard requires that excess tax benefits and deficiencies that arise upon vesting or exercise of share-based payments be recognized as an income tax benefit and expense in the income statement.

On December 22, 2017, the United States enacted the 2017 Tax Act that imposes a repatriation tax on accumulated earnings of foreign subsidiaries, implements a territorial tax system together with a current tax on certain foreign earnings and lowers the general corporate income tax rate to 21%. On December 22, 2017, the SEC staff issued Staff Accounting Bulletin No. 118 (SAB 118) that allows us to record provisional amounts during a measurement period not to extend beyond one year of the enactment date. We currently are analyzing the 2017 Tax Act, and in certain areas, have made reasonable estimates of the effects on our consolidated financial statements and tax disclosures, including the amount of the repatriation tax and changes to our existing deferred tax balances.

The repatriation tax is based primarily on our accumulated foreign earnings and profits that we previously deferred from U.S. income taxes. We recorded an estimated amount for our repatriation tax liability of \$7.3 billion as of December 31, 2017. We no longer reinvest our undistributed earnings of our foreign operations indefinitely outside the United States. In addition, we remeasured certain net deferred and other tax liabilities based on the tax rates at which they are expected to reverse in the future. The estimated amount recorded related to the remeasurement of these balances was a net benefit of \$1.2 billion. The net estimated impact of the 2017 Tax Act is \$6.1 billion.

We consider the key estimates on the repatriation tax, net deferred tax remeasurement and the impact on our unrealized tax benefits to be incomplete due to our continuing analysis of final year-end data and tax positions. Our analysis could affect the measurement of these balances and give rise to new deferred tax assets and liabilities. Since the 2017 Tax Act was passed late in the fourth quarter of 2017, and further guidance and accounting interpretation is expected over the next 12 months, our review is still pending. We expect to complete our analysis within the measurement period.

As previously disclosed, we received a RAR from the IRS for the years 2010, 2011 and 2012. The RAR proposes to make significant adjustments that relate primarily to the allocation of profits between certain of our entities in the United States and the U.S. territory of Puerto Rico. On November 29, 2017, we received a modified RAR that revised their calculation but continued to propose substantial adjustments. We disagree with the proposed adjustments and are pursuing resolution through the IRS administrative appeals process, which we believe will likely not be concluded within the next 12 months. Final resolution of the IRS audit could have a material impact on our results of consolidated operations and cash flows if not resolved favorably, however, we believe our income tax reserves are appropriately provided for all open tax years.

See Summary of Critical Accounting Policies—Income taxes, and Part IV—Note 5, Income taxes, to the Consolidated Financial Statements.

Financial Condition, Liquidity and Capital Resources

Selected financial data was as follows (in millions):

| | December 31, | | | |
|---|--------------|--------|------|--------|
| | 2017 | | 2016 | |
| Cash, cash equivalents and marketable securities | \$ | 41,678 | \$ | 38,085 |
| Total assets | \$ | 79,954 | \$ | 77,626 |
| Short-term borrowings and current portion of long-term debt | \$ | 1,152 | \$ | 4,403 |
| Long-term debt | \$ | 34,190 | \$ | 30,193 |
| Stockholders' equity | \$ | 25,241 | \$ | 29,875 |

Cash, cash equivalents and marketable securities

We now have global access to our \$41.7 billion balance of cash, cash equivalents and marketable securities, as we no longer reinvest our undistributed foreign earnings indefinitely outside the United States. Under the 2017 Tax Act, we owe a repatriation tax on undistributed earnings generated from operations in foreign tax jurisdictions estimated at \$7.3 billion that will be paid over eight years. See Contractual Obligations below. We will also have access to global cash generated from operations in the future.

The primary objective of our investment portfolio is to enhance overall returns in an efficient manner while maintaining safety of principal, prudent levels of liquidity and acceptable levels of risk. Our investment policy limits interest-bearing security investments to certain types of debt and money market instruments issued by institutions with primarily investment-grade credit ratings and places restrictions on maturities and concentration by asset class and issuer.

Capital allocation

Consistent with the objective to optimize our capital structure, we will seek to deploy our accumulated cash balances in an efficient manner and will consider several alternatives such as share repurchases, payment of cash dividends, repayment of debt, and strategic transactions that expand our portfolio of products in areas of therapeutic interest.

In addition to deploying our cash balances, we intend to continue to invest in our business and return capital to stockholders through the payment of cash dividends and stock repurchases reflecting our confidence in the future cash flows of our business. The timing and amount of future dividends and stock repurchases will vary based on a number of factors, including future capital requirements for strategic transactions, the availability of financing on acceptable terms, debt service requirements, our credit rating, changes to applicable tax laws or corporate laws, changes to our business model and periodic determination by our Board of Directors that cash dividends and/or stock repurchases are in the best interests of stockholders and are in compliance with applicable laws and agreements of the Company. In addition, the timing and amount of stock repurchases may also be affected by the stock price and blackout periods, during which we are restricted from repurchasing stock. The manner of stock repurchases may include private block purchases, tender offers and market transactions.

The Board of Directors declared quarterly cash dividends of \$0.79 per share of common stock in 2015, increased our quarterly cash dividend by 27% to \$1.00 per share of common stock in 2016, and increased our quarterly cash dividend by 15% to \$1.15 per share of common stock in 2017. In December 2017, the Board of Directors declared a cash dividend of \$1.32 per share of common stock for the first quarter of 2018, an increase of 15% for this period, to be paid in March 2018.

We have also returned capital to stockholders through our stock repurchase program. During 2017, we repurchased \$3.1 billion of common stock and had cash settlements of \$3.2 billion. In 2016 and 2015, we repurchased \$3.0 billion and \$1.9 billion of our common stock, respectively. As of December 31, 2017, \$4.4 billion remained available under the stock repurchase program.

In January 2018, our Board of Directors authorized an additional \$10.0 billion under our stock repurchase program. Based on our confidence in the long-term outlook for our business, enhanced by the 2017 Tax Act, and consistent with our ongoing objective to return capital to our stockholders, on February 5, 2018, we announced a tender offer to purchase up to \$10.0 billion of our common stock at a price not greater than \$200 per share nor less than \$175 per share. The tender offer expires at 12:00 Midnight, New York City time, at the end of Monday, March 5, 2018, unless the offer is extended.

We believe that existing funds, cash generated from operations and existing sources of and access to financing are adequate to satisfy our needs for working capital; capital expenditure and debt service requirements; our plans to pay dividends and repurchase stock; and other business initiatives we plan to strategically pursue, including acquisitions and licensing activities. We anticipate that our liquidity needs can be met through a variety of sources, including cash provided by operating activities, sales of marketable securities, borrowings through commercial paper and/or syndicated credit facilities and access to other domestic and foreign debt

markets and equity markets. See Part I, Item 1A. Risk Factors—*Global economic conditions may negatively affect us and may magnify certain risks that affect our business.*

Financing arrangements

The current and noncurrent portions of our long-term borrowings as of December 31, 2017, were \$1.2 billion and \$34.2 billion, respectively. The current and noncurrent portions of our long-term borrowings as of December 31, 2016, were \$4.4 billion and \$30.2 billion, respectively. As of December 31, 2017, Standard & Poor's Financial Services LLC (S&P), Moody's Investors Service, Inc. (Moody's) and Fitch Ratings Inc. (Fitch) assigned credit ratings to our outstanding senior notes of A with a stable outlook, Baa1 with a stable outlook and BBB with a stable outlook, respectively, which are considered investment grade. Unfavorable changes to these ratings may have an adverse impact on future financings.

During 2017, 2016 and 2015, we issued debt with aggregate principal amounts of \$4.5 billion, \$7.3 billion and \$3.5 billion, respectively. During 2017, 2016 and 2015, we repaid debt of \$4.4 billion, \$3.7 billion and \$2.4 billion, respectively.

To achieve a desired mix of fixed-rate and floating-rate debt, we entered into interest rate swap contracts that effectively converted a fixed-rate interest coupon for certain of our debt issuances to a floating London Interbank Offered Rates (LIBOR)-based coupon over the life of the respective note. These interest rate swap contracts qualified and are designated as fair value hedges. As of December 31, 2017 and 2016, we had interest rate swap contracts with aggregate notional amounts of \$9.45 billion and \$6.65 billion, respectively.

To hedge our exposure to foreign currency exchange rate risk associated with certain of our long-term notes denominated in foreign currencies, we entered into cross-currency swap contracts, which effectively convert the interest payments and principal repayment of the respective notes from euros, pounds sterling and Swiss francs to U.S. dollars. These cross-currency swap contracts qualified and are designated as cash flow hedges. As of December 31, 2017 and 2016, we had cross-currency swap contracts with aggregate notional amounts of \$5.6 billion.

As of December 31, 2017, we had a commercial paper program that allows us to issue up to \$2.5 billion of unsecured commercial paper to fund our working-capital needs. During 2017, we issued and repaid an aggregate of \$12.3 billion commercial paper and had a maximum outstanding balance of \$1.5 billion under our commercial paper program. During 2016 and 2015, we did not issue any commercial paper. No commercial paper was outstanding as of December 31, 2017 or 2016.

In 2014, we entered into a \$2.5 billion syndicated, unsecured, revolving credit agreement which is available for general corporate purposes or as a liquidity backstop to our commercial paper program. The commitments under the revolving credit agreement may be increased by up to \$500 million with the agreement of the banks. Each bank which is a party to the agreement has an initial commitment term of five years. We extended this term by one year during 2016 and may extend the term for an additional year with the agreement of the banks. Annual commitment fees for this agreement are 0.09% of the unused portion of the facility based on our current credit rating. Generally, we would be charged interest at LIBOR plus 1% for any amounts borrowed under this facility. As of December 31, 2017 and 2016, no amounts were outstanding under this facility.

In 2017, we filed a shelf registration statement with the SEC that allows us to issue unspecified amounts of debt securities; common stock; preferred stock; warrants to purchase debt securities, common stock, preferred stock or depositary shares; rights to purchase common stock or preferred stock; securities purchase contracts; securities purchase units; and depositary shares. Under this shelf registration statement, all of the securities available for issuance may be offered from time to time with terms to be determined at the time of issuance. This shelf registration statement expires in February 2020.

Certain of our financing arrangements contain non-financial covenants. In addition, our revolving credit agreement includes a financial covenant with respect to the level of our borrowings in relation to our equity, as defined. We were in compliance with all applicable covenants under this arrangement as of December 31, 2017.

See Part IV—Note 14, Financing arrangements, and Note 17, Derivative instruments, to the Consolidated Financial Statements.

Cash flows

A summary of our cash flow activity was as follows (in millions):

| | Years ended December 31, | | |
|---|--------------------------|------------|------------|
| | 2017 | 2016 | 2015 |
| Net cash provided by operating activities | \$ 11,177 | \$ 10,354 | \$ 9,731 |
| Net cash used in investing activities | \$ (4,024) | \$ (8,658) | \$ (5,547) |
| Net cash used in financing activities | \$ (6,594) | \$ (2,599) | \$ (3,771) |

Operating

Cash provided by operating activities has been and is expected to continue to be our primary recurring source of funds. Cash provided by operating activities increased during 2017 due primarily to a higher operating margin and the timing of payments to vendors and receipts from customers, offset partially by higher payments to taxing authorities. Cash provided by operating activities increased during 2016 due primarily to an improved operating margin and the timing of customer payments, offset partially by inventory build, the monetization of foreign currency forward contracts in 2015 and the timing of tax payments.

Investing

Cash used in investing activities during 2017, 2016 and 2015 was due primarily to net cash outflows related to marketable securities of \$3.2 billion, \$7.7 billion and \$4.4 billion, respectively. Capital expenditures, which were associated primarily with site development costs, including our Thousand Oaks campus, as well as manufacturing capacity expansions in Puerto Rico, Singapore and Ireland, were \$664 million, \$738 million and \$594 million in 2017, 2016 and 2015, respectively. We currently estimate 2018 spending on capital projects to be approximately \$750 million.

Financing

Cash used in financing activities during 2017 was due primarily to the repayment of debt of \$4.4 billion, the payment of dividends of \$3.4 billion, repurchases of our common stock of \$3.2 billion and withholding taxes arising from shares withheld for share-based payments of \$191 million, offset partially by net proceeds from the issuance of debt of \$4.5 billion. Cash used in financing activities during 2016 was due primarily to the repayment of debt of \$3.7 billion, the payment of dividends of \$3.0 billion, repurchases of our common stock of \$3.0 billion and withholding taxes arising from shares withheld for share-based payments of \$260 million, offset partially by net proceeds from the issuance of debt of \$7.3 billion. Cash used in financing activities during 2015 was due primarily to the repayment of debt of \$2.4 billion, the payment of dividends of \$2.4 billion, repurchases of our common stock of \$1.9 billion, withholding taxes arising from shares withheld for share-based payments of \$401 million and the settlement of contingent consideration obligations incurred in connection with the acquisition of a business of \$253 million, offset partially by net proceeds from the issuance of debt of \$3.5 billion.

See Part IV—Note 14, Financing arrangements, and Note 15, Stockholders' equity, to the Consolidated Financial Statements.

Off-Balance Sheet Arrangements

We do not have any off-balance sheet arrangements that are material or reasonably likely to become material to our consolidated financial position or consolidated results of operations.

Contractual Obligations

Contractual obligations represent future cash commitments and liabilities under agreements with third parties, and exclude contingent liabilities for which we cannot reasonably predict future payment. Additionally, the expected timing of payment of the obligations presented below is estimated based on current information. Timing of payments and actual amounts paid may be different depending on the timing of receipt of goods or services or changes to agreed-upon terms or amounts for some obligations.

The following table represents our contractual obligations aggregated by type (in millions):

| Contractual obligations | Payments due by period as of December 31, 2017 | | | | |
|---|--|----------|---------------|---------------|--------------------|
| | Total | Year 1 | Years 2 and 3 | Years 4 and 5 | Years 6 and beyond |
| Long-term debt obligations ^{(1) (2) (3) (4)} | \$ 56,763 | \$ 2,530 | \$ 9,964 | \$ 9,705 | \$ 34,564 |
| Operating lease obligations ⁽⁵⁾ | 650 | 158 | 242 | 159 | 91 |
| Purchase obligations ⁽⁶⁾ | 1,343 | 605 | 346 | 150 | 242 |
| U.S. repatriation tax ⁽⁷⁾ | 7,316 | 585 | 1,170 | 1,170 | 4,391 |
| Unrecognized tax benefits (UTBs) ⁽⁸⁾ | — | — | — | — | — |
| Total contractual obligations | \$ 66,072 | \$ 3,878 | \$ 11,722 | \$ 11,184 | \$ 39,288 |

⁽¹⁾ Long-term debt obligations include future interest payments on our fixed-rate obligations at the contractual coupon rates. To achieve a desired mix of fixed-rate and floating-rate debt, we entered into interest rate swap contracts that effectively converted a fixed-rate interest coupon for certain of our debt issuances to a floating LIBOR-based coupon over the life of the respective note. We used an interest rate forward curve as of December 31, 2017, in computing net amounts to be paid or received under our interest rate swap contracts which resulted in an aggregate net increase in future interest payments of \$22 million. See Part IV—Note 14, Financing arrangements, to the Consolidated Financial Statements.

⁽²⁾ Long-term debt obligations include future interest payments on our LIBOR-based variable-rate obligations. We used an interest rate forward curve as of December 31, 2017, in computing the LIBOR-based portion of interest payments on these debt obligations. See Part IV—Note 14, Financing arrangements, to the Consolidated Financial Statements.

⁽³⁾ Long-term debt obligations include contractual interest payments and principal repayment of our foreign-denominated debt obligations. In order to hedge our exposure to foreign currency exchange rate risk associated with certain of our euro, pound sterling and Swiss franc denominated long-term debt, we entered into cross-currency swap contracts that effectively convert interest payments and principal repayment on this debt from euros, pounds sterling and Swiss francs to U.S. dollars. For purposes of this table, we used the contracted exchange rates in the cross-currency swap contracts to compute the net amounts of future interest payments and principal repayments on this debt. See Part IV—Note 17, Derivative instruments, to the Consolidated Financial Statements.

⁽⁴⁾ Interest payments and the repayment of principal on our 4.375% 2018 euro Notes were translated into U.S. dollars at the foreign currency exchange rate in effect as of December 31, 2017. See Part IV—Note 14, Financing arrangements, to the Consolidated Financial Statements.

⁽⁵⁾ Operating lease obligations exclude \$205 million of future receipts under noncancelable subleases of abandoned facilities.

⁽⁶⁾ Purchase obligations relate primarily to: (i) R&D commitments (including those related to clinical trials) for new and existing products; (ii) capital expenditures; and (iii) open purchase orders for the acquisition of goods and services in the ordinary course of business. Our obligation to pay certain of these amounts may be reduced based on certain future events.

⁽⁷⁾ Under the 2017 Tax Act, we will elect to pay the repatriation tax primarily related to our prior indefinitely invested earnings of our foreign operations in eight annual installments beginning April 2018. See Part IV—Note 5, Income taxes, to the Consolidated Financial Statements.

⁽⁸⁾ Liabilities for UTBs (net of foreign tax credits and federal tax benefit of state taxes) and related accrued interest and penalties of \$2.4 billion as of December 31, 2017, are not included in the table above because, due to their nature, there is a high degree of uncertainty regarding the timing of future cash outflows and other events that extinguish these liabilities.

In addition to amounts in the table above, we are contractually obligated to pay additional amounts, which in the aggregate are significant, upon the achievement of various development, regulatory and commercial milestones for agreements we have entered into with third parties, including contingent consideration incurred in the acquisition of BioVex Group Inc. (BioVex). These payments are contingent upon the occurrence of various future events, substantially all of which have a high degree of uncertainty of occurring. These contingent payments have not been included in the table above, and, except with respect to the fair value of the contingent consideration obligations, are not recorded on our Consolidated Balance Sheets. As of December 31, 2017, the maximum amount that may be payable in the future for agreements we have entered into with third parties is \$7.0 billion, including \$325 million of contingent consideration payments in connection with the acquisition of BioVex. Contingent consideration with respect to the acquisition of Dezima Pharma B.V. was excluded due to the discontinuation of the development of AMG 899, upon which payments are based. See Part IV—Note 16, Fair value measurement, to the Consolidated Financial Statements.

Summary of Critical Accounting Policies

The preparation of our consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements and the notes to the financial statements. Some of those judgments can be subjective and complex, and therefore, actual results could differ materially from those estimates under different assumptions or conditions.

Product sales and sales deductions

Revenues from sales of our products are recognized when the products are shipped and title and risk of loss have passed. Product sales are recorded net of accruals for estimated rebates, wholesaler chargebacks, cash discounts and other deductions (collectively, sales deductions) and returns, which are established at the time of sale.

We analyze the adequacy of our accruals for sales deductions quarterly. Amounts accrued for sales deductions are adjusted when trends or significant events indicate that adjustment is appropriate. Accruals are also adjusted to reflect actual results. Amounts recorded in Accrued liabilities in the Consolidated Balance Sheets for sales deductions were as follows (in millions):

| | Rebates | Chargebacks | Other deductions | Total |
|---------------------------------------|----------|-------------|------------------|----------|
| Balance as of December 31, 2014 | \$ 1,120 | \$ 196 | \$ 63 | \$ 1,379 |
| Amounts charged against product sales | 2,734 | 4,275 | 732 | 7,741 |
| Payments | (2,735) | (4,198) | (701) | (7,634) |
| Balance as of December 31, 2015 | 1,119 | 273 | 94 | 1,486 |
| Amounts charged against product sales | 3,479 | 5,270 | 905 | 9,654 |
| Payments | (3,181) | (5,201) | (884) | (9,266) |
| Balance as of December 31, 2016 | 1,417 | 342 | 115 | 1,874 |
| Amounts charged against product sales | 4,909 | 6,098 | 992 | 11,999 |
| Payments | (4,459) | (6,168) | (999) | (11,626) |
| Balance as of December 31, 2017 | \$ 1,867 | \$ 272 | \$ 108 | \$ 2,247 |

For the years ended December 31, 2017, 2016 and 2015, total sales deductions were 35%, 31% and 27% of gross product sales, respectively. Included in the amounts are immaterial net adjustments related to prior-year sales due to changes in estimates. Such amounts represent less than 1% of the aggregate sales deductions charged against product sales in each of the three years ended December 31, 2017.

In the United States, we utilize wholesalers as the principal means of distributing our products to healthcare providers, such as physicians or their clinics, dialysis centers, hospitals and pharmacies. Products we sell in Europe are distributed principally to hospitals and/or wholesalers depending on the distribution practice in each country where the product is sold. We monitor the inventory levels of our products at our wholesalers by using data from our wholesalers and other third parties, and we believe wholesaler inventories have been maintained at appropriate levels (generally two to three weeks) given end-user demand. Accordingly, historical fluctuations in wholesaler inventory levels have not significantly impacted our method of estimating sales deductions and returns.

Accruals for sales deductions are based primarily on estimates of the amounts earned or to be claimed on the related sales. These estimates take into consideration current contractual and statutory requirements, specific known market events and trends, internal and external historical data and forecasted customer buying patterns. Sales deductions are substantially product specific and, therefore, for any given year, can be impacted by the mix of products sold.

Rebates include primarily amounts paid to payers and providers in the United States, including those paid to state Medicaid programs, and are based on contractual arrangements or statutory requirements which vary by product, by payer and by individual payer plans. As we sell product, we estimate the amount of rebate we will pay based on the product sold, contractual terms, estimated patient population, historical experience and wholesaler inventory levels and accrue these rebates in the period the related sale is recorded. We then adjust the rebate accruals as more information becomes available and to reflect actual claims experience. Estimating such rebates is complicated, in part because of the time delay between the date of sale and the actual settlement of the liability. We believe the methodology we use to accrue for rebates is reasonable and appropriate given current facts and circumstances, but actual results may differ.

Wholesaler chargebacks relate to our contractual agreements to sell products to healthcare providers in the United States at fixed prices that are lower than the prices we charge wholesalers. When healthcare providers purchase our products through wholesalers at these reduced prices, wholesalers charge us for the difference between their purchase price and the contractual price

between Amgen and the healthcare providers. The provision for chargebacks is based on the expected sales by our wholesaler customers to healthcare providers. Accruals for wholesaler chargebacks are less difficult to estimate than rebates and closely approximate actual results since chargeback amounts are fixed at the date of purchase by the healthcare providers, and we generally settle the liability for these deductions within a few weeks.

Product returns

Returns are estimated through comparison of historical return data to their related sales on a production lot basis. Historical rates of return are determined for each product and are adjusted for known or expected changes in the marketplace specific to each product, when appropriate. In each of the past three years, sales return provisions have amounted to less than 1% of gross product sales. Changes in estimates for prior-year sales return provisions have historically been insignificant.

Income taxes

We provide for income taxes based on pretax income and applicable tax rates available in the various jurisdictions in which we operate.

We recognize the tax benefit from an uncertain tax position only if it is more likely than not that the tax position will be sustained on examination by the taxing authorities based on the technical merits of the position. The tax benefit recognized in the consolidated financial statements on a particular tax position is measured based on the largest benefit that is more likely than not to be realized. The amount of UTBs is adjusted as appropriate for changes in facts and circumstances, such as significant amendments to existing tax law, new regulations or interpretations by the taxing authorities, new information obtained during a tax examination, or resolution of an examination. We believe our estimates for uncertain tax positions are appropriate and sufficient for any assessments that may result from examinations of our tax returns. We recognize both accrued interest and penalties, where appropriate, related to UTBs in income tax expense.

Certain items are included in our tax return at different times than they are reflected in the financial statements and cause temporary differences between the tax bases of assets and liabilities and their reported amounts. Such temporary differences create deferred tax assets and liabilities. Deferred tax assets are generally items that can be used as a tax deduction or credit in the tax return in future years but for which we have already recorded the tax benefit in the consolidated financial statements. We establish valuation allowances against our deferred tax assets when the amount of expected future taxable income is not likely to support the use of the deduction or credit. Deferred tax liabilities are either: (i) tax expenses recognized in the consolidated financial statements for which payment has been deferred; (ii) expenses for which we have already taken a deduction on the tax return, but have not yet recognized the expense in the consolidated financial statements; or (iii) liabilities for the difference between the book basis and tax basis of the intangible assets acquired in many business combinations, as future expenses associated with these assets most often will not be tax deductible.

We are a vertically integrated enterprise with operations in the United States and various foreign jurisdictions. We are subject to income tax in the foreign jurisdictions where we conduct activities based on the tax laws and principles of such jurisdictions and the functions, risks and activities performed therein. Our pretax income is therefore attributed to domestic or foreign sources based on the operations performed and risks assumed in each location and the tax laws and principles of the respective taxing jurisdictions. For example, we conduct significant operations in Puerto Rico, a territory of the United States that is treated as a foreign jurisdiction for U.S. tax purposes, pertaining to manufacturing, distribution and other related functions to meet our worldwide product demand. Income from our operations in Puerto Rico is subject to tax incentive grants through 2035.

On December 22, 2017, the SEC staff issued SAB 118 to address the accounting implications of the 2017 Tax Act. The effects of the 2017 Tax Act are recognized upon enactment, however, SAB 118 permits a company to recognize provisional amounts when it does not have the necessary information available, prepared or analyzed (including computations) in reasonable detail to complete its accounting for the change in tax law. The measurement period to finalize our calculations cannot extend beyond one year of the enactment date. Key provisions that have a significant impact on our consolidated financial statements and where we have recognized estimated amounts include the recognition of liabilities for taxes on repatriation of accumulated foreign earnings and the remeasurement of certain net deferred and other tax liabilities.

Furthermore, the 2017 Tax Act permits a company, upon election, to pay the repatriation tax over eight years on an interest-free basis, which we expect to do. In January 2018, the Financial Accounting Standards Board staff issued Staff Q&A, Topic 740, No. 2, *Whether to Discount the Tax Liability on Deemed Repatriation*, which notes that the repatriation tax liability should not be discounted. See Part IV—Note 5, Income taxes, to the Consolidated Financial Statements.

Our operations are subject to the tax laws, regulations and administrative practices of the United States, U.S. state jurisdictions and other countries, including the U.S. territory of Puerto Rico, in which we do business. Significant changes in these rules could have a material adverse effect on our results of operations. See Part I, Item 1A. Risk Factors—*The adoption and interpretation of new tax legislation or exposure to additional tax liabilities could affect our profitability.*

Contingencies

In the ordinary course of business, we are involved in various legal proceedings and other matters such as intellectual property disputes, contractual disputes, governmental investigations and class action suits which are complex in nature and have outcomes that are difficult to predict. Certain of these proceedings are discussed in Part IV—Note 18, Contingencies and commitments, to the Consolidated Financial Statements. We record accruals for loss contingencies to the extent that we conclude that it is probable that a liability has been incurred and the amount of the related loss can be reasonably estimated. We consider all relevant factors when making assessments regarding these contingencies.

While it is not possible to accurately predict or determine the eventual outcomes of these items, an adverse determination in one or more of these items currently pending could have a material adverse effect on our consolidated results of operations, financial position or cash flows.

Valuation of assets and liabilities in connection with business combinations

We have acquired and continue to acquire intangible assets in connection with business combinations. These intangible assets consist primarily of technology associated with currently marketed human therapeutic products and IPR&D product candidates. Discounted cash flow models are typically used to determine the fair values of these intangible assets for purposes of allocating consideration paid to the net assets acquired in a business combination. See Part IV—Note 3, Business combinations, to the Consolidated Financial Statements. These models require the use of significant estimates and assumptions, including, but not limited to:

- determining the timing and expected costs to complete in-process projects taking into account the stage of completion at the acquisition date;
- projecting the probability and timing of obtaining marketing approval from the FDA and other regulatory agencies for product candidates;
- estimating the timing of and future net cash flows from product sales resulting from completed products and in-process projects; and
- developing appropriate discount rates to calculate the present values of the cash flows.

Significant estimates and assumptions are also required to determine the acquisition date fair values of any contingent consideration obligations incurred in connection with business combinations. In addition, we must revalue these obligations each subsequent reporting period until the related contingencies are resolved and record changes in their fair values in earnings. The acquisition date fair values of contingent consideration obligations incurred or assumed in the acquisitions of businesses were determined using a combination of valuation techniques. Significant estimates and assumptions required for these valuations included, but were not limited to, the probability of achieving regulatory milestones, product sales projections under various scenarios and discount rates used to calculate the present value of the required payments. These estimates and assumptions are required to be updated in order to revalue these contingent consideration obligations each reporting period. Accordingly, subsequent changes in underlying facts and circumstances could result in changes in these estimates and assumptions, which could have a material impact on the estimated future fair values of these obligations. For example, during 2017, we discontinued the internal development of AMG 899 and consequently reduced the related contingent consideration liabilities. See Part IV—Note 16, Fair value measurement, to the Consolidated Financial Statements.

We believe the fair values used to record intangible assets acquired and contingent consideration obligations incurred in connection with business combinations are based upon reasonable estimates and assumptions given the facts and circumstances as of the related valuation dates.

Impairment of long-lived assets

We review the carrying value of our property, plant and equipment and our finite-lived intangible assets for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. If such circumstances exist, an estimate of undiscounted future cash flows to be generated by the long-lived asset is compared to the carrying value to determine whether an impairment exists. If an asset is determined to be impaired, the loss is measured based on the difference between the asset's fair value and its carrying value.

Indefinite-lived intangible assets, composed of IPR&D projects acquired in a business combination which have not reached technological feasibility or lack regulatory approval at the time of acquisition, are reviewed for impairment annually, whenever events or changes in circumstances indicate that the carrying amount may not be recoverable and upon establishment of technological feasibility or regulatory approval. We determine impairment by comparing the fair value of the asset to its carrying value. If the

asset's carrying value exceeds its fair value, an impairment charge is recorded for the difference and its carrying value is reduced accordingly.

Estimating future cash flows of an IPR&D product candidate for purposes of an impairment analysis requires us to make significant estimates and assumptions regarding the amount and timing of costs to complete the project and the amount, timing and probability of achieving revenues from the completed product similar to how the acquisition date fair value of the project was determined, as described above. There are often major risks and uncertainties associated with IPR&D projects as we are required to obtain regulatory approvals in order to be able to market these products. Such approvals require completing clinical trials that demonstrate a product candidate is safe and effective. Consequently, the eventual realized value of the acquired IPR&D project may vary from its fair value at the date of acquisition, and IPR&D impairment charges may occur in future periods which could have a material adverse effect on our results of operations. For example, during 2017, we discontinued the internal development of AMG 899 and consequently recorded an IPR&D asset impairment charge. See Part IV—Note 12, Goodwill and other intangible assets, to the Consolidated Financial Statements.

We believe our estimations of future cash flows used for assessing impairment of long-lived assets are based on reasonable assumptions given the facts and circumstances as of the related dates of the assessments.

Item 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to market risks that may result from changes in interest rates, foreign currency exchange rates and prices of equity instruments as well as changes in general economic conditions in the countries where we conduct business. To reduce certain of these risks, we enter into various types of foreign currency and interest rate derivative hedging transactions as part of our risk management program. We do not use derivatives for speculative trading purposes.

In the discussion that follows, we have assumed a hypothetical change in interest rates of 100 basis points from those as of December 31, 2017 and 2016. We have also assumed a hypothetical 20% change in foreign currency exchange rates against the U.S. dollar based on its position relative to other currencies as of December 31, 2017 and 2016.

Interest rate sensitive financial instruments

Our portfolio of available-for-sale interest-bearing securities as of December 31, 2017 and 2016, was composed of: U.S. Treasury securities and other government-related debt securities; corporate debt securities; residential mortgage-backed and other mortgage- and asset-backed securities; money market mutual funds; and other short-term interest-bearing securities, composed principally of commercial paper. The fair values of our investment portfolio of interest-bearing securities were \$41.2 billion and \$37.6 billion as of December 31, 2017 and 2016, respectively. Duration is a sensitivity measure that can be used to approximate the change in the value of a security that will result from a 100 basis point change in interest rates. Applying a duration model, a hypothetical 100 basis point increase in interest rates as of December 31, 2017 and 2016, would have resulted in a reduction in the fair values of these securities of \$1.1 billion and \$900 million, respectively, on these dates. In addition, a hypothetical 100 basis point decrease in interest rates as of December 31, 2017 and 2016, would not result in a material effect on income in the respective ensuing year.

As of December 31, 2017, we had outstanding debt with a carrying value of \$35.3 billion and a fair value of \$38.6 billion. As of December 31, 2016, we had outstanding debt with a carrying value of \$34.6 billion and a fair value of \$36.5 billion. Our outstanding debt was composed primarily of debt with fixed interest rates with variable rate debt having a carrying value of \$850 million and \$1.5 billion as of December 31, 2017 and 2016, respectively. Changes in interest rates do not affect interest expense on fixed-rate debt. Changes in interest rates would, however, affect the fair values of fixed-rate debt. A hypothetical 100 basis point decrease in interest rates relative to interest rates as of December 31, 2017 and 2016, would have resulted in an increase of \$3.3 billion and \$3.0 billion, respectively, in the aggregate fair value of our outstanding debt on each of these dates. The analysis for the debt does not consider the impact that hypothetical changes in interest rates would have on the related interest rate swap contracts and cross-currency swap contracts, discussed below.

To achieve a desired mix of fixed-rate and floating-rate debt, we entered into interest rate swap contracts which qualified and were designated for accounting purposes as fair value hedges, for certain of our fixed-rate debt. These interest rate swap contracts effectively converted a fixed-rate interest coupon to a floating-rate LIBOR-based coupon over the life of the respective note. Interest rate swap contracts with aggregate notional amounts of \$9.45 billion and \$6.65 billion were outstanding as of December 31, 2017 and 2016, respectively. A hypothetical 100 basis point increase in interest rates relative to interest rates as of December 31, 2017 and 2016, would have resulted in reductions in fair values of \$420 million and \$240 million, respectively, on our interest rate swap contracts on these dates and would not result in a material effect on the related income in the respective ensuing years. The analysis for the interest rate swap contracts does not consider the impact that hypothetical changes in interest rates would have on the related fair values of debt that these interest rate sensitive instruments were designed to offset.

As of December 31, 2017 and 2016, we had outstanding cross-currency swap contracts with aggregate notional amounts of \$5.6 billion that hedge certain of our foreign-currency denominated debt and related interest payments. These contracts effectively convert interest payments and principal repayment of this debt to U.S. dollars from euros, pounds sterling and Swiss francs and are designated for accounting purposes as cash flow hedges. A hypothetical 100 basis point adverse movement in interest rates relative to interest rates as of December 31, 2017 and 2016, would have resulted in reductions in the fair values of our cross-currency swap contracts of \$390 million and \$450 million, respectively.

Foreign currency sensitive financial instruments

Our international operations are affected by fluctuations in the value of the U.S. dollar as compared to foreign currencies, predominantly the euro. Increases and decreases in our international product sales from movements in foreign currency exchange rates are offset partially by the corresponding increases or decreases in our international operating expenses. Increases and decreases in our foreign-currency denominated assets from movements in foreign currency exchange rates are offset partially by the corresponding increases or decreases in our foreign-currency denominated liabilities. To further reduce our net exposure to foreign currency exchange rate fluctuations on our results of operations, we enter into foreign currency forward, option and cross-currency swap contracts.

As of December 31, 2017, we had outstanding euro, pound sterling and Swiss franc denominated debt with a principal carrying value and fair value of \$6.2 billion and \$6.7 billion, respectively. As of December 31, 2016, we had outstanding euro, pound sterling and Swiss franc denominated debt with a principal carrying value and fair value of \$5.5 billion and \$6.0 billion, respectively. A hypothetical 20% adverse movement in foreign currency exchange rates compared with the U.S. dollar relative to exchange rates as of December 31, 2017, would have resulted in an increase in fair value of this debt of \$1.3 billion on this date and a reduction in income in the ensuing year of \$1.2 billion. A hypothetical 20% adverse movement in foreign currency exchange rates compared with the U.S. dollar relative to exchange rates as of December 31, 2016, would have resulted in an increase in fair value of this debt of \$1.2 billion on this date and a reduction in income in the ensuing year of \$1.1 billion. The impact on income from these hypothetical changes in foreign currency exchange rates would be substantially offset by the impact such changes would have on related cross-currency swap contracts, which are in place for the majority of the foreign currency denominated debt.

We have cross-currency swap contracts that are designated as cash flow hedges of certain of our debt denominated in euros, pounds sterling and Swiss francs with an aggregate notional amount of \$5.6 billion, as of December 31, 2017 and 2016. A hypothetical 20% adverse movement in foreign currency exchange rates compared with the U.S. dollar relative to exchange rates on these dates, would have resulted in a reduction in the fair values of these contracts of \$1.3 billion and \$1.2 billion on these dates, respectively. The impact on income in the ensuing years from these contracts of this hypothetical adverse movement in foreign currency exchange rates would be fully offset by the corresponding hypothetical changes in the carrying amounts of the related hedged debt.

We enter into foreign currency forward and options contracts that are designated for accounting purposes as cash flow hedges of certain anticipated foreign currency transactions. As of December 31, 2017, we had open foreign currency forward and options contracts, primarily euro-based, with notional amounts of \$4.6 billion and \$74 million, respectively. As of December 31, 2016, we had open foreign currency forward and options contracts, primarily euro-based, with notional amounts of \$3.4 billion and \$608 million, respectively. As of December 31, 2017 and 2016, the fair values of these contracts were a \$200 million liability and a \$200 million asset, respectively. With regard to foreign currency forward and option contracts that were open as of December 31, 2017, a hypothetical 20% adverse movement in foreign currency exchange rates compared with the U.S. dollar relative to exchange rates as of December 31, 2017, would have resulted in a reduction in fair value of these contracts of \$930 million on this date and, in the ensuing year, a reduction in income of \$360 million. With regard to contracts that were open as of December 31, 2016, a hypothetical 20% adverse movement in foreign currency exchange rates compared with the U.S. dollar relative to exchange rates as of December 31, 2016, would have resulted in a reduction in fair value of these contracts of \$650 million on this date and, in the ensuing year, a reduction in income of \$300 million. The analysis does not consider the impact that hypothetical changes in foreign currency exchange rates would have on anticipated transactions that these foreign currency sensitive instruments were designed to offset.

As of December 31, 2017 and 2016, we had open foreign currency forward contracts with notional amounts of \$757 million and \$666 million, respectively, that hedged fluctuations of certain assets and liabilities denominated in foreign currencies but were not designated as hedges for accounting purposes. These contracts had no material net unrealized gains or losses as of December 31, 2017 and 2016. With regard to these foreign currency forward contracts that were open as of December 31, 2017 and 2016, a hypothetical 20% adverse movement in foreign currency exchange rates compared with the U.S. dollar relative to exchange rates on these dates would not have a material effect on the fair values of these contracts or related income in the respective ensuing years. The analysis does not consider the impact that hypothetical changes in foreign currency exchange rates would have on assets and liabilities that these foreign currency sensitive instruments were designed to offset.

Market price sensitive financial instruments

As of December 31, 2017 and 2016, we were also exposed to price risk on equity securities included in our portfolio of investments, which were acquired primarily for the promotion of business and strategic objectives. These investments are generally in small capitalization stocks in the biotechnology industry sector. Price risk relative to our equity investment portfolio as of December 31, 2017 and 2016, was not material.

Counterparty credit risks

Our financial instruments, including derivatives, are subject to counterparty credit risk which we consider as part of the overall fair value measurement. Our financial risk management policy limits derivative transactions by requiring transactions to be with institutions with minimum credit ratings of A- or equivalent by S&P, Moody's or Fitch and requires placing exposure limits on the amount with any individual counterparty. In addition, we have an investment policy that limits investments to certain types of debt and money market instruments issued by institutions primarily with investment-grade credit ratings and places restriction on maturities and concentrations by asset class and issuer.

Item 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

The information required by this item is incorporated herein by reference to the financial statements and schedule listed in Item 15(a)1 and (a)2 of Part IV and included in this Annual Report on Form 10-K.

Item 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

Item 9A. CONTROLS AND PROCEDURES

We maintain "disclosure controls and procedures," as such term is defined under Exchange Act Rule 13a-15(e), that are designed to ensure that information required to be disclosed in Amgen's Exchange Act reports is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to Amgen's management, including its Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosures. In designing and evaluating the disclosure controls and procedures, Amgen's management recognized that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives and in reaching a reasonable level of assurance Amgen's management necessarily was required to apply its judgment in evaluating the cost-benefit relationship of possible controls and procedures. We have carried out an evaluation under the supervision and with the participation of our management, including Amgen's Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of Amgen's disclosure controls and procedures. Based upon their evaluation and subject to the foregoing, the Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were effective as of December 31, 2017.

Management determined that, as of December 31, 2017, there were no changes in our internal control over financial reporting that occurred during the fiscal quarter then ended that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Management's Report on Internal Control over Financial Reporting

Management of the Company is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Rule 13a-15(f) under the Securities Exchange Act of 1934. The Company's internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles in the United States. However, all internal control systems, no matter how well designed, have inherent limitations. Therefore, even those systems determined to be effective can provide only reasonable assurance with respect to financial statement preparation and reporting.

Management assessed the effectiveness of the Company's internal control over financial reporting as of December 31, 2017. In making this assessment, management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in Internal Control-Integrated Framework (2013 framework). Based on our assessment, management believes that the Company maintained effective internal control over financial reporting as of December 31, 2017, based on the COSO criteria.

The effectiveness of the Company's internal control over financial reporting has been audited by Ernst & Young LLP, an independent registered public accounting firm, as stated in their attestation report appearing below, which expresses an unqualified opinion on the effectiveness of the Company's internal control over financial reporting as of December 31, 2017.

Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of Amgen Inc.

Opinion on Internal Control over Financial Reporting

We have audited Amgen Inc.'s internal control over financial reporting as of December 31, 2017, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, Amgen Inc. (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2017, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of Amgen Inc. as of December 31, 2017 and 2016, the related consolidated statements of income, comprehensive income, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2017, and the related notes and the financial statement schedule listed in the Index at Item 15(a)2 of the Company and our report dated February 13, 2018 expressed an unqualified opinion thereon.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP

Los Angeles, California
February 13, 2018

Item 9B. OTHER INFORMATION

Not applicable.

PART III

Item 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information about our Directors is incorporated by reference from the section entitled ITEM 1—ELECTION OF DIRECTORS in our Proxy Statement for the 2018 Annual Meeting of Stockholders to be filed with the SEC within 120 days of December 31, 2017 (the Proxy Statement). Information about compliance with Section 16(a) of the Securities Exchange Act of 1934 is incorporated by reference from the section entitled OTHER MATTERS—Section 16(a) Beneficial Ownership Reporting Compliance in our Proxy Statement. Information about the procedures by which stockholders may recommend nominees for the Board of Directors is incorporated by reference from APPENDIX A—AMGEN INC. BOARD OF DIRECTORS GUIDELINES FOR DIRECTOR QUALIFICATIONS AND EVALUATIONS and OTHER MATTERS—Stockholder Proposals for the 2019 Annual Meeting in our Proxy Statement. Information about our Audit Committee, members of the committee and our Audit Committee financial experts is incorporated by reference from the section entitled CORPORATE GOVERNANCE—Audit Committee in our Proxy Statement. Information about our executive officers is contained in the discussion entitled Item 1. Business—Executive Officers of the Registrant.

Code of Ethics

We maintain a Code of Ethics for CEO and Senior Financial Officers applicable to our principal executive officer, principal financial officer, principal accounting officer or controller, and other persons performing similar functions. To view this code of ethics free of charge, please visit our website at www.amgen.com. (This website address is not intended to function as a hyperlink, and the information contained in our website is not intended to be a part of this filing.) We intend to satisfy the disclosure requirements under Item 5.05 of Form 8-K regarding an amendment to, or waiver from, a provision of this code of ethics, if any, by posting such information on our website as set forth above.

Item 11. EXECUTIVE COMPENSATION

Information about director and executive compensation is incorporated by reference from the section entitled EXECUTIVE COMPENSATION in our Proxy Statement. Information about compensation committee matters is incorporated by reference from the sections entitled CORPORATE GOVERNANCE—Compensation and Management Development Committee and CORPORATE GOVERNANCE—Compensation Committee Report in our Proxy Statement.

Item 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Securities Authorized for Issuance Under Existing Equity Compensation Plans

The following table sets forth certain information as of December 31, 2017, concerning the shares of our common stock that may be issued under any form of award granted under our equity compensation plans in effect as of December 31, 2017 (including upon the exercise of options, the vesting of awards of restricted stock units (RSUs), or when performance units are earned, and related dividend equivalents have been granted).

| Plan category | (a) Number of securities to be issued upon exercise of outstanding options and rights | (b) Weighted average exercise price of outstanding options and rights | (c) Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) |
|---|--|--|--|
| Equity compensation plans approved by Amgen security holders: | | | |
| Amended and Restated 2009 Equity Incentive Plan ⁽¹⁾ | 9,842,199 | \$ 127.10 | 36,100,581 |
| Amended and Restated 1991 Equity Incentive Plan ⁽²⁾ | 23,845 | — | — |
| Amended and Restated Employee Stock Purchase Plan | — | — | 4,761,810 |
| Total approved plans | 9,866,044 | \$ 127.10 | 40,862,391 |
| Equity compensation plan not approved by Amgen security holders: | | | |
| Amgen Profit Sharing Plan for Employees in Ireland ⁽³⁾ | — | — | 107,908 |
| Total unapproved plans | — | \$ — | 107,908 |
| Total all plans | 9,866,044 | \$ 127.10 | 40,970,299 |

⁽¹⁾ The Amended and Restated 2009 Equity Incentive Plan employs a fungible share counting formula for determining the number of shares available for issuance under the plan. In accordance with this formula, each option or stock appreciation right counts as one share, while each restricted stock unit, performance unit or dividend equivalent counts as 1.9 shares. The number under column (a) represents the actual number of shares issuable under our outstanding awards without giving effect to the fungible share counting formula. The number under column (c) represents the number of shares available for issuance under this plan based on each such available share counting as one share. Commencing with the grants made in April 2012, RSUs and performance units accrue dividend equivalents that are payable in shares only to the extent and when the underlying RSUs vest or underlying performance units have been earned and the related shares are issued to the grantee. The performance units granted under this plan are earned based on the accomplishment of specified performance goals at the end of their respective three-year performance periods; the number of performance units granted represent target performance and the maximum number of units that could be earned based on our performance is 150% of the performance units granted in 2015 and 200% of performance units granted in 2016 and 2017.

As of December 31, 2017, the number of outstanding awards under column (a) includes: (i) 3,963,390 shares issuable upon the exercise of outstanding options with a weighted-average exercise price of \$127.10; (ii) 3,664,499 shares issuable upon the vesting of outstanding RSUs (including 177,631 related dividend equivalents); and (iii) 2,214,310 shares subject to outstanding 2015, 2016 and 2017 performance units (including 99,373 related dividend equivalents). The weighted-average exercise price shown in column (b) is for the outstanding options only. The number of available shares under column (c) represents the number of shares that remain available for future issuance under this plan as of December 31, 2017, employing the fungible share formula and presumes the issuance of target shares under the performance units granted in 2015, 2016 and 2017 and related dividend equivalents. The numbers under columns (a) and (c) do not give effect to the additional shares that could be issuable in the event above target on the performance goals under these outstanding performance units are achieved. Maximum performance under these goals could result in 150% of target shares being awarded for performance units granted in 2015 and 200% of target shares being awarded for performance units granted in 2016 and 2017.

⁽²⁾ This plan has terminated as to future grants. The number under column (a) with respect to this plan includes 23,845 shares issuable upon the settlement of deferred RSUs (including 3,053 related dividend equivalents).

⁽³⁾ The Amgen Profit Sharing Plan for Employees in Ireland (the Profit Sharing Plan) was approved by the Board of Directors on July 28, 2011. The Profit Sharing Plan permits eligible employees of the Company's subsidiaries located in Ireland, which participate in the Profit Sharing Plan, to apply a portion of their qualifying bonus and salary to the purchase the Company's common stock on the open market at the market price by a third-party trustee as described in the Profit Sharing Plan.

Security Ownership of Directors and Executive Officers and Certain Beneficial Owners

Information about security ownership of certain beneficial owners and management is incorporated by reference from the sections entitled SECURITY OWNERSHIP OF DIRECTORS AND EXECUTIVE OFFICERS and SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS in our Proxy Statement.

Item 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

Information about certain relationships and related transactions and director independence is incorporated by reference from the sections entitled CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS and CORPORATE GOVERNANCE—Director Independence in our Proxy Statement.

Item 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Information about the fees for professional services rendered by our independent registered public accountants is incorporated by reference from the section entitled AUDIT MATTERS—Independent Registered Public Accountants in our Proxy Statement.

PART IV

Item 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

(a)1. Index to Financial Statements

The following Consolidated Financial Statements are included herein:

| | Page number |
|---|------------------------|
| Report of Independent Registered Public Accounting Firm | F-1 |
| Consolidated Statements of Income for each of the three years in the period ended December 31, 2017 | F-2 |
| Consolidated Statements of Comprehensive Income for each of the three years in the period ended December 31, 2017 | F-3 |
| Consolidated Balance Sheets at December 31, 2017 and 2016 | F-4 |
| Consolidated Statements of Stockholders' Equity for each of the three years in the period ended December 31, 2017 | F-5 |
| Consolidated Statements of Cash Flows for each of the three years in the period ended December 31, 2017 | F-6 |
| Notes to Consolidated Financial Statements | F-7 |

(a)2. Index to Financial Statement Schedules

The following Schedule is filed as part of this Annual Report on Form 10-K:

| | Page number |
|---------------------------------------|------------------------|
| II. Valuation and Qualifying Accounts | F-50 |

All other schedules are omitted because they are not applicable, not required or because the required information is included in the consolidated financial statements or notes thereto.

(a)3. Exhibits

| Exhibit No. | Description |
|--------------------|--|
| 3.1 | Restated Certificate of Incorporation of Amgen Inc. (As Restated March 6, 2013.) (Filed as an exhibit to Form 10-Q for the quarter ended March 31, 2013 on May 3, 2013 and incorporated herein by reference.) |
| 3.2 | Amended and Restated Bylaws of Amgen Inc. (As Amended and Restated February 15, 2016.) (Filed as an exhibit to Form 8-K on February 17, 2016 and incorporated herein by reference.) |
| 4.1 | Form of stock certificate for the common stock, par value \$.0001 of the Company. (Filed as an exhibit to Form 10-Q for the quarter ended March 31, 1997 on May 13, 1997 and incorporated herein by reference.) |
| 4.2 | Form of Indenture, dated January 1, 1992. (Filed as an exhibit to Form S-3 Registration Statement filed on December 19, 1991 and incorporated herein by reference.) |
| 4.3 | Agreement of Resignation, Appointment and Acceptance dated February 15, 2008. (Filed as an exhibit to Form 10-K for the year ended December 31, 2007 on February 28, 2008 and incorporated herein by reference.) |
| 4.4 | First Supplemental Indenture, dated February 26, 1997. (Filed as an exhibit to Form 8-K on March 14, 1997 and incorporated herein by reference.) |
| 4.5 | 8-1/8% Debentures due April 1, 2097. (Filed as an exhibit to Form 8-K on April 8, 1997 and incorporated herein by reference.) |
| 4.6 | Officer's Certificate of Amgen Inc., dated January 1, 1992, as supplemented by the First Supplemental Indenture, dated February 26, 1997, establishing a series of securities entitled "8 1/8% Debentures due April 1, 2097." (Filed as an exhibit to Form 8-K on April 8, 1997 and incorporated herein by reference.) |

- 4.7 [Indenture, dated August 4, 2003.](#) (Filed as an exhibit to Form S-3 Registration Statement on August 4, 2003 and incorporated herein by reference.)
- 4.8 Corporate Commercial Paper - Master Note between and among Amgen Inc., as Issuer, Cede & Co., as Nominee of The Depository Trust Company, and Citibank, N.A., as Paying Agent. (Filed as an exhibit to Form 10-Q for the quarter ended March 31, 1998 on May 13, 1998 and incorporated herein by reference.)
- 4.9 [Officers' Certificate of Amgen Inc., dated May 30, 2007, including forms of the Company's Senior Floating Rate Notes due 2008, 5.85% Senior Notes due 2017 and 6.375% Senior Notes due 2037.](#) (Filed as an exhibit to Form 8-K on May 30, 2007 and incorporated herein by reference.)
- 4.10 [Officers' Certificate of Amgen Inc., dated May 23, 2008, including forms of the Company's 6.15% Senior Notes due 2018 and 6.90% Senior Notes due 2038.](#) (Filed as exhibit to Form 8-K on May 23, 2008 and incorporated herein by reference.)
- 4.11 [Officers' Certificate of Amgen Inc., dated January 16, 2009, including forms of the Company's 5.70% Senior Notes due 2019 and 6.40% Senior Notes due 2039.](#) (Filed as exhibit to Form 8-K on January 16, 2009 and incorporated herein by reference.)
- 4.12 [Officers' Certificate of Amgen Inc., dated March 12, 2010, including forms of the Company's 4.50% Senior Notes due 2020 and 5.75% Senior Notes due 2040.](#) (Filed as exhibit to Form 8-K on March 12, 2010 and incorporated herein by reference.)
- 4.13 [Officers' Certificate of Amgen Inc., dated September 16, 2010, including forms of the Company's 3.45% Senior Notes due 2020 and 4.95% Senior Notes due 2041.](#) (Filed as an exhibit to Form 8-K on September 17, 2010 and incorporated herein by reference.)
- 4.14 [Officers' Certificate of Amgen Inc., dated June 30, 2011, including forms of the Company's 2.30% Senior Notes due 2016, 4.10% Senior Notes due 2021 and 5.65% Senior Notes due 2042.](#) (Filed as an exhibit to Form 8-K on June 30, 2011 and incorporated herein by reference.)
- 4.15 [Officers' Certificate of Amgen Inc., dated November 10, 2011, including forms of the Company's 1.875% Senior Notes due 2014, 2.50% Senior Notes due 2016, 3.875% Senior Notes due 2021 and 5.15% Senior Notes due 2041.](#) (Filed as an exhibit to Form 8-K on November 10, 2011 and incorporated herein by reference.)
- 4.16 [Officers' Certificate of Amgen Inc., dated December 5, 2011, including forms of the Company's 4.375% Senior Notes due 2018 and 5.50% Senior Notes due 2026.](#) (Filed as an exhibit to Form 8-K on December 5, 2011 and incorporated herein by reference.)
- 4.17 [Officers' Certificate of Amgen Inc., dated May 15, 2012, including forms of the Company's 2.125% Senior Notes due 2017, 3.625% Senior Notes due 2022 and 5.375% Senior Notes due 2043.](#) (Filed as an exhibit to Form 8-K on May 15, 2012 and incorporated herein by reference.)
- 4.18 [Officers' Certificate of Amgen Inc., dated September 13, 2012, including forms of the Company's 2.125% Senior Notes due 2019 and 4.000% Senior Notes due 2029.](#) (Filed as an exhibit to Form 8-K on September 13, 2012 and incorporated herein by reference.)
- 4.19 [Indenture, dated May 22, 2014, between Amgen Inc. and The Bank of New York Mellon Trust Company, N.A., as Trustee.](#) (Filed as an exhibit to Form 8-K on May 22, 2014 and incorporated herein by reference.)
- 4.20 [Officers' Certificate of Amgen Inc., dated May 22, 2014, including forms of the Company's Senior Floating Rate Notes due 2017, Senior Floating Rate Notes due 2019, 1.250% Senior Notes due 2017, 2.200% Senior Notes due 2019 and 3.625% Senior Notes due 2024.](#) (Filed as an exhibit to Form 8-K on May 22, 2014 and incorporated herein by reference.)
- 4.21 [Officer's Certificate of Amgen Inc., dated May 1, 2015, including forms of the Company's 2.125% Senior Notes due 2020, 2.700% Senior Notes due 2022, 3.125% Senior Notes due 2025 and 4.400% Senior Notes due 2045.](#) (Filed as an exhibit on Form 8-K on May 1, 2015 and incorporated herein by reference.)
- 4.22 [Officer's Certificate of Amgen Inc., dated as of February 25, 2016, including forms of the Company's 1.250% Senior Notes due 2022 and 2.000% Senior Notes due 2026.](#) (Filed as an exhibit on Form 8-K on February 26, 2016 and incorporated herein by reference.)
- 4.23 [Form of Permanent Global Certificate for the Company's 0.410% bonds due 2023.](#) (Filed as an exhibit on Form 8-K on March 8, 2016 and incorporated herein by reference.)
- 4.24 [Terms of the Bonds for the Company's 0.410% bonds due 2023.](#) (Filed as an exhibit on Form 8-K on March 8, 2016 and incorporated herein by reference.)

- 4.25 [Officer's Certificate of Amgen Inc., dated as of June 14, 2016, including forms of the Company's 4.563% Senior Notes due 2048 and 4.663% Senior Notes due 2051.](#) (Filed as an exhibit to Form 8-K on June 14, 2016 and incorporated herein by reference.)
- 4.26 [Registration Rights Agreement, dated as of June 14, 2016, by and among Amgen Inc., Credit Suisse Securities \(USA\) LLC, J.P. Morgan Securities LLC, Citigroup Global Markets Inc. and Mizuho Securities USA Inc., as lead dealer managers, and Drexel Hamilton, LLC and The Williams Capital Group, L.P., as co-dealer managers.](#) (Filed as an exhibit to Form 8-K on June 14, 2016 and incorporated herein by reference.)
- 4.27 [Officer's Certificate of Amgen Inc., dated as of August 19, 2016, including forms of the Company's 1.850% Senior Notes due 2021, 2.250% Senior Notes due 2023 and 2.600% Senior Notes due 2026.](#) (Filed as an exhibit to Form 8-K on August 19, 2016 and incorporated herein by reference.)
- 4.28 [Officer's Certificate of Amgen Inc., dated as of May 11, 2017, including in forms of the Company's Senior Floating Rate Notes due 2019, Senior Floating Rate Notes due 2020, 1.900% Senior Notes due 2019, 2.200% Senior Notes due 2020 and 2.650% Senior Notes due 2022.](#) (Filed as an exhibit to Form 8-K on May 11, 2017 and incorporated by reference.)
- 4.29 [Officer's Certificate of Amgen Inc., dated as of November 2, 2017, including in the form of the Company's 3.200% Senior Notes due 2027.](#) (Filed as an exhibit to Form 8-K on November 2, 2017 and incorporated by reference.)
- 10.1+ [Amgen Inc. Amended and Restated 2009 Equity Incentive Plan.](#) (Filed as Appendix C to the Definitive Proxy Statement on Schedule 14A on April 8, 2013 and incorporated herein by reference.)
- 10.2+ [First Amendment to Amgen Inc. Amended and Restated 2009 Equity Incentive Plan, effective March 4, 2015.](#) (Filed as an exhibit to Form 10-Q for the quarter ended March 31, 2015 on April 27, 2015 and incorporated herein by reference.)
- 10.3+ [Second Amendment to Amgen Inc. Amended and Restated 2009 Equity Incentive Plan, effective March 2, 2016.](#) (Filed as an exhibit to Form 10-Q for the quarter ended March 31, 2016 on May 2, 2016 and incorporated herein by reference.)
- 10.4+* [Form of Stock Option Agreement for the Amgen Inc. Amended and Restated 2009 Equity Incentive Plan. \(As Amended on December 12, 2017.\)](#)
- 10.5+* [Form of Restricted Stock Unit Agreement for the Amgen Inc. Amended and Restated 2009 Equity Incentive Plan. \(As Amended on December 12, 2017.\)](#)
- 10.6+* [Amgen Inc. 2009 Performance Award Program. \(As Amended on December 12, 2017.\)](#)
- 10.7+* [Form of Performance Unit Agreement for the Amgen Inc. 2009 Performance Award Program. \(As Amended on December 12, 2017.\)](#)
- 10.8+* [Amgen Inc. 2009 Director Equity Incentive Program. \(As Amended on October 24, 2017.\)](#)
- 10.9+ [Form of Grant of Non-Qualified Stock Option Agreement for the Amgen Inc. 2009 Director Equity Incentive Program.](#) (Filed as an exhibit to Form 8-K on May 8, 2009 and incorporated herein by reference.)
- 10.10+* [Form of Restricted Stock Unit Agreement for the Amgen Inc. 2009 Director Equity Incentive Program. \(As Amended on October 24, 2017.\)](#)
- 10.11+* [Form of Cash-Settled Restricted Stock Unit Agreement for the Amgen 2009 Director Equity Incentive Program.](#)
- 10.12+ [Amgen Inc. Supplemental Retirement Plan. \(As Amended and Restated effective October 16, 2013.\)](#) (Filed as an exhibit to Form 10-K for the year ended December 31, 2013 on February 24, 2014 and incorporated herein by reference.)
- 10.13+ [First Amendment to the Amgen Inc. Supplemental Retirement Plan, effective October 14, 2016.](#) (Filed as an exhibit to Form 10-Q for the quarter ended September 30, 2016 on October 28, 2016 and incorporated herein by reference.)
- 10.14+ [Amended and Restated Amgen Change of Control Severance Plan. \(As Amended and Restated effective December 9, 2010 and subsequently amended effective March 2, 2011.\)](#) (Filed as an exhibit to Form 10-Q for the quarter ended March 31, 2011 on May 10, 2011 and incorporated herein by reference.)

- 10.15+ [Amgen Inc. Executive Incentive Plan. \(As Amended and Restated effective January 1, 2009.\)](#) (Filed as an exhibit to Form 10-Q for the quarter ended September 30, 2008 on November 7, 2008 and incorporated herein by reference.)
- 10.16+ [First Amendment to the Amgen Inc. Executive Incentive Plan, effective December 13, 2012.](#) (Filed as an exhibit to Form 10-K for the year ended December 31, 2012 on February 27, 2013 and incorporated herein by reference.)
- 10.17+ [Second Amendment to the Amgen Inc. Executive Incentive Plan, effective January 1, 2017.](#) (Filed as an exhibit to Form 10-Q for the quarter ended March 31, 2017 on April 27, 2017 and incorporated herein by reference.)
- 10.18+ [Amgen Nonqualified Deferred Compensation Plan. \(As Amended and Restated effective October 16, 2013.\)](#) (Filed as an exhibit to Form 10-K for the year ended December 31, 2013 on February 24, 2014 and incorporated herein by reference.)
- 10.19+ [First Amendment to the Amgen Nonqualified Deferred Compensation Plan, effective October 14, 2016.](#) (Filed as an exhibit to Form 10-Q for the quarter ended September 30, 2016 on October 28, 2016 and incorporated herein by reference.)
- 10.20+ [Agreement between Amgen Inc. and David W. Meline, effective July 21, 2014.](#) (Filed as an exhibit to Form 10-Q for the quarter ended September 30, 2014 on October 29, 2014 and incorporated herein by reference.)
- 10.21+ [Agreement between Amgen Inc. and Jonathan Graham, dated May 11, 2015.](#) (Filed as an exhibit to Form 10-Q/A for the quarter ended June 30, 2015 on August 6, 2015 and incorporated herein by reference.)
- 10.22+ [Agreement between Amgen Inc. and Lori Johnston, dated October 25, 2016.](#) (Filed as an exhibit to Form 10-K for the year ended December 31, 2016 on February 14, 2017 and incorporated herein by reference.)
- 10.23 [Shareholders' Agreement, dated May 11, 1984, among Amgen, Kirin Brewery Company, Limited and Kirin-Amgen, Inc.](#) (Filed as an exhibit to Form 10-K for the year ended December 31, 2000 on March 7, 2001 and incorporated herein by reference.)
- 10.24 [Amendment No. 1 dated March 19, 1985, Amendment No. 2 dated July 29, 1985 \(effective July 1, 1985\), and Amendment No. 3, dated December 19, 1985, to the Shareholders' Agreement dated May 11, 1984.](#) (Filed as an exhibit to Form 10-Q for the quarter ended June 30, 2000 on August 1, 2000 and incorporated herein by reference.)
- 10.25 [Amendment No. 4 dated October 16, 1986 \(effective July 1, 1986\), Amendment No. 5 dated December 6, 1986 \(effective July 1, 1986\), Amendment No. 6 dated June 1, 1987, Amendment No. 7 dated July 17, 1987 \(effective April 1, 1987\), Amendment No. 8 dated May 28, 1993 \(effective November 13, 1990\), Amendment No. 9 dated December 9, 1994 \(effective June 14, 1994\), Amendment No. 10 effective March 1, 1996, and Amendment No. 11 effective March 20, 2000 to the Shareholders' Agreement, dated May 11, 1984.](#) (Filed as exhibits to Form 10-K for the year ended December 31, 2000 on March 7, 2001 and incorporated herein by reference.)
- 10.26 [Amendment No. 12 to the Shareholders' Agreement, dated January 31, 2001.](#) (Filed as an exhibit to Form 10-Q for the quarter ended June 30, 2005 on August 8, 2005 and incorporated herein by reference.)
- 10.27 [Amendment No. 13 to the Shareholders' Agreement, dated June 28, 2007 \(portions of the exhibit have been omitted pursuant to a request for confidential treatment\).](#) (Filed as an exhibit to Form 10-Q for the quarter ended June 30, 2007 on August 9, 2007 and incorporated herein by reference.)
- 10.28 [Amendment No. 14 to the Shareholders' Agreement, dated March 26, 2014.](#) (Filed as an exhibit to Form 10-Q for the quarter ended March 31, 2014 on April 30, 2014 and incorporated herein by reference.)
- 10.29 [Assignment and License Agreement, dated October 16, 1986 \(effective July 1, 1986\), between Amgen and Kirin-Amgen, Inc.](#) (Filed as an exhibit to Form 10-K for the year ended December 31, 2000 on March 7, 2001 and incorporated herein by reference.)
- 10.30 [G-CSF United States License Agreement, dated June 1, 1987 \(effective July 1, 1986\), Amendment No. 1, dated October 20, 1988, and Amendment No. 2, dated October 17, 1991 \(effective November 13, 1990\),](#) between Kirin-Amgen, Inc. and Amgen Inc. (Filed as exhibits to Form 10-K for the year ended December 31, 2000 on March 7, 2001 and incorporated herein by reference.)

- 10.31 [G-CSF European License Agreement, dated December 30, 1986, between Kirin-Amgen and Amgen, Amendment No. 1 to Kirin-Amgen, Inc. / Amgen G-CSF European License Agreement, dated June 1, 1987, Amendment No. 2 to Kirin-Amgen, Inc. / Amgen G-CSF European License Agreement, dated March 15, 1998, Amendment No. 3 to Kirin-Amgen, Inc. / Amgen G-CSF European License Agreement, dated October 20, 1988, and Amendment No. 4 to Kirin-Amgen, Inc. / Amgen G-CSF European License Agreement, dated December 29, 1989, between Kirin-Amgen, Inc. and Amgen Inc.](#) (Filed as exhibits to Form 10-K for the year ended December 31, 2000 on March 7, 2001 and incorporated herein by reference.)
- 10.32 [Amended and Restated Credit Agreement, dated July 30, 2014, among Amgen Inc., the Banks therein named, Citibank, N.A., as administrative agent, and JPMorgan Chase Bank, N.A., as syndication agent](#) (Filed as an exhibit to Form 8-K on July 30, 2014 and incorporated herein by reference.)
- 10.33 [Collaboration and License Agreement between Amgen Inc. and Celltech R&D Limited dated May 10, 2002 \(portions of the exhibit have been omitted pursuant to a request for confidential treatment\) and Amendment No. 1, effective June 9, 2003, to Collaboration and License Agreement between Amgen Inc. and Celltech R&D Limited \(portions of the exhibit have been omitted pursuant to a request for confidential treatment\).](#) (Filed as an exhibit to Form 10-K/A for the year ended December 31, 2012 on July 31, 2013 and incorporated herein by reference.)
- 10.34 [Amendment No. 2 to Collaboration and License Agreement, effective November 14, 2016, between Amgen Inc. and Celltech R&D Limited \(portions of the exhibit have been omitted pursuant to a request for confidential treatment\).](#) (Filed as an exhibit to Form 10-K for the year ended December 31, 2016 on February 14, 2017 and incorporated herein by reference.)
- 10.35 [Collaboration Agreement, dated April 22, 1994, by and between Bayer Corporation \(formerly Miles, Inc.\) and Onyx Pharmaceuticals, Inc.](#) (Filed as an exhibit to Form 10-Q for the quarter ended March 31, 2011 by Onyx Pharmaceuticals, Inc. on May 10, 2011 and incorporated herein by reference.)
- 10.36 [Amendment to Collaboration Agreement, dated April 24, 1996, by and between Bayer Corporation and Onyx Pharmaceuticals, Inc.](#) (Filed as an exhibit to Form 10-Q for the quarter ended March 31, 2006 by Onyx Pharmaceuticals, Inc. on May 10, 2006 and incorporated herein by reference.)
- 10.37 [Amendment to Collaboration Agreement, dated February 1, 1999, by and between Bayer Corporation and Onyx Pharmaceuticals, Inc.](#) (Filed as an exhibit to Form 10-Q for the quarter ended March 31, 2006 by Onyx Pharmaceuticals, Inc. on May 10, 2006 and incorporated herein by reference.)
- 10.38 [Settlement Agreement and Release, dated October 11, 2011, by and between Bayer Corporation, Bayer AG, Bayer HealthCare LLC and Bayer Pharma AG and Onyx Pharmaceuticals, Inc.](#) (Filed as an exhibit to Form 10-K for the year ended December 31, 2011 by Onyx Pharmaceuticals, Inc. on February 27, 2012 and incorporated herein by reference.)
- 10.39 [Fourth Amendment to Collaboration Agreement, dated October 11, 2011, by and between Bayer Corporation and Onyx Pharmaceuticals, Inc.](#) (Filed as an exhibit to Form 10-K for the year ended December 31, 2011 by Onyx Pharmaceuticals, Inc. on February 27, 2012 and incorporated herein by reference.)
- 10.40 [Side Letter Regarding Collaboration Agreement, dated May 29, 2015, by and between Bayer HealthCare LLC and Onyx Pharmaceuticals, Inc.](#) (Filed as an exhibit to Form 10-Q for the quarter ended June 30, 2015 on August 5, 2015 and incorporated herein by reference.)
- 10.41 [Sourcing and Supply Agreement, dated January 6, 2017, by and between Amgen USA Inc., a wholly owned subsidiary of Amgen Inc., and DaVita Inc. \(portions of the exhibit have been omitted pursuant to a request for confidential treatment\).](#) (Filed as an exhibit to Form 10-Q for the quarter ended March 31, 2017 on April 27, 2017 and incorporated herein by reference.)
- 10.42 [Exclusive License and Collaboration Agreement, dated August 28, 2015, by and between Amgen Inc. and Novartis Pharma AG \(portions of the exhibit have been omitted pursuant to a request for confidential treatment\).](#) (Filed as an exhibit to Form 10-Q for the quarter ended June 30, 2017 on July 26, 2017 and incorporated herein by reference.)
- 10.43 [Amendment No. 1 to the Exclusive License and Collaboration Agreement, dated April 21, 2017, by and between Amgen Inc. and Novartis Pharma AG \(portions of the exhibit have been omitted pursuant to a request for confidential treatment\).](#) (Filed as an exhibit to Form 10-Q for the quarter ended June 30, 2017 on July 26, 2017 and incorporated herein by reference.)
- 10.44 [Amendment No. 2 to the Exclusive License and Collaboration Agreement, dated April 21, 2017, by and between Amgen Inc. and Novartis Pharma AG \(portions of the exhibit have been omitted pursuant to a request for confidential treatment\).](#) (Filed as an exhibit to Form 10-Q for the quarter ended June 30, 2017 on July 26, 2017 and incorporated herein by reference.)

| | |
|----------|--|
| 10.45 | Collaboration Agreement, dated April 21, 2017, by and between Amgen Inc. and Novartis Pharma AG (portions of the exhibit have been omitted pursuant to a request for confidential treatment) . (Filed as an exhibit to Form 10-Q for the quarter ended June 30, 2017 on July 26, 2017 and incorporated herein by reference.) |
| 21* | Subsidiaries of the Company . |
| 23 | Consent of the Independent Registered Public Accounting Firm. The consent is set forth on page 75 of this Annual Report on Form 10-K. |
| 24 | Power of Attorney. The Power of Attorney is set forth on page 76 of this Annual Report on Form 10-K. |
| 31* | Rule 13a-14(a) Certifications . |
| 32** | Section 1350 Certifications . |
| 101.INS* | XBRL Instance Document. |
| 101.SCH* | XBRL Taxonomy Extension Schema Document. |
| 101.CAL* | XBRL Taxonomy Extension Calculation Linkbase Document. |
| 101.DEF* | XBRL Taxonomy Extension Definition Linkbase Document. |
| 101.LAB* | XBRL Taxonomy Extension Label Linkbase Document. |
| 101.PRE* | XBRL Taxonomy Extension Presentation Linkbase Document. |

(* = filed herewith)

(** = furnished herewith and not “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended)

(+ = management contract or compensatory plan or arrangement)

Item 16. FORM 10-K SUMMARY

Not applicable.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this Annual Report to be signed on its behalf by the undersigned, thereunto duly authorized.

AMGEN INC.
(Registrant)

Date: February 13, 2018

By:

/s/ DAVID W. MELINE

David W. Meline
Executive Vice President and Chief Financial Officer
(Principal Financial and Accounting Officer)

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the following Registration Statements:

- Registration Statement (Form S-8 No. 333-159377) pertaining to the Amgen Inc. 2009 Equity Incentive Plan;
- Registration Statement (Form S-8 No. 33-39183) pertaining to the Amended and Restated Employee Stock Purchase Plan;
- Registration Statements (Form S-8 No. 33-39104, as amended by Form S-8 No. 333-144581 and 333-216719) pertaining to the Amended and Restated Amgen Retirement and Savings Plan (formerly known as the Amgen Retirement and Savings Plan);
- Registration Statements (Form S-8 Nos. 33-47605, 333-144580 and 333-216715) pertaining to the Retirement and Savings Plan for Amgen Manufacturing, Limited (formerly known as the Retirement and Savings Plan for Amgen Manufacturing, Inc.);
- Registration Statements (Form S-8 Nos. 333-81284, 333-177868 and 333-216723) pertaining to the Amgen Nonqualified Deferred Compensation Plan;
- Registration Statement (Form S-3 No. 333-216060) relating to debt securities, common stock, preferred stock, warrants to purchase debt securities, common stock, preferred stock or depositary shares, rights to purchase common stock or preferred stock, securities purchase contracts, securities purchase units and depositary shares of Amgen Inc. and in the related Prospectus; and
- Registration Statement (Form S-8 No. 333-176240) pertaining to the Amgen Profit Sharing Plan for Employees in Ireland;

of our reports dated February 13, 2018, with respect to the consolidated financial statements and schedule of Amgen Inc. and the effectiveness of internal control over financial reporting of Amgen Inc. included in this Annual Report (Form 10-K) of Amgen Inc. for the year ended December 31, 2017.

/s/ Ernst & Young LLP

Los Angeles, California
February 13, 2018

POWER OF ATTORNEY

KNOW ALL MEN AND WOMEN BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints David W. Meline, his or her attorney-in-fact, with the power of substitution, for him or her in any and all capacities, to sign any amendments to this Report, and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, hereby ratifying and confirming that said attorney-in-fact, or his or her substitute or substitutes, may do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated:

| Signature | Title | Date |
|--|--|-----------|
| /S/ ROBERT A. BRADWAY <hr/> Robert A. Bradway | Chairman of the Board, Chief Executive Officer and President, and Director (Principal Executive Officer) | 2/13/2018 |
| /S/ DAVID W. MELINE <hr/> David W. Meline | Executive Vice President and Chief Financial Officer (Principal Financial and Accounting Officer) | 2/13/2018 |
| /S/ WANDA M. AUSTIN <hr/> Wanda M. Austin | Director | 2/13/2018 |
| /S/ DAVID BALTIMORE <hr/> David Baltimore | Director | 2/13/2018 |
| /S/ FRANÇOIS DE CARBONNEL <hr/> François de Carbonnel | Director | 2/13/2018 |
| /S/ ROBERT A. ECKERT <hr/> Robert A. Eckert | Director | 2/13/2018 |
| /S/ GREG C. GARLAND <hr/> Greg C. Garland | Director | 2/13/2018 |
| /S/ FRED HASSAN <hr/> Fred Hassan | Director | 2/13/2018 |
| /S/ REBECCA M. HENDERSON <hr/> Rebecca M. Henderson | Director | 2/13/2018 |
| /S/ FRANK C. HERRINGER <hr/> Frank C. Herringer | Director | 2/13/2018 |
| /S/ CHARLES M. HOLLEY, JR. <hr/> Charles M. Holley, Jr. | Director | 2/13/2018 |
| /S/ TYLER JACKS <hr/> Tyler Jacks | Director | 2/13/2018 |
| /S/ ELLEN J. KULLMAN <hr/> Ellen J. Kullman | Director | 2/13/2018 |
| /S/ RONALD D. SUGAR <hr/> Ronald D. Sugar | Director | 2/13/2018 |
| /S/ R. SANDERS WILLIAMS <hr/> R. Sanders Williams | Director | 2/13/2018 |

Report of Independent Registered Public Accounting Firm

The Board of Directors and Stockholders of Amgen Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Amgen Inc. (the Company) as of December 31, 2017 and 2016, the related consolidated statements of income, comprehensive income, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2017, and the related notes and the financial statement schedule listed in the Index at Item 15(a)2 (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the consolidated financial position of the Company at December 31, 2017 and 2016, and the consolidated results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2017, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated February 13, 2018 expressed an unqualified opinion thereon.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 1980.

Los Angeles, California

February 13, 2018

AMGEN INC.
CONSOLIDATED STATEMENTS OF INCOME
Years ended December 31, 2017, 2016 and 2015
(In millions, except per share data)

| | 2017 | 2016 | 2015 |
|--|-----------------|-----------------|-----------------|
| Revenues: | | | |
| Product sales | \$ 21,795 | \$ 21,892 | \$ 20,944 |
| Other revenues | 1,054 | 1,099 | 718 |
| Total revenues | <u>22,849</u> | <u>22,991</u> | <u>21,662</u> |
| Operating expenses: | | | |
| Cost of sales | 4,069 | 4,162 | 4,227 |
| Research and development | 3,562 | 3,840 | 4,070 |
| Selling, general and administrative | 4,870 | 5,062 | 4,846 |
| Other | 375 | 133 | 49 |
| Total operating expenses | <u>12,876</u> | <u>13,197</u> | <u>13,192</u> |
| Operating income | 9,973 | 9,794 | 8,470 |
| Interest expense, net | 1,304 | 1,260 | 1,095 |
| Interest and other income, net | 928 | 629 | 603 |
| Income before income taxes | 9,597 | 9,163 | 7,978 |
| Provision for income taxes | 7,618 | 1,441 | 1,039 |
| Net income | <u>\$ 1,979</u> | <u>\$ 7,722</u> | <u>\$ 6,939</u> |
| Earnings per share: | | | |
| Basic | \$ 2.71 | \$ 10.32 | \$ 9.15 |
| Diluted | \$ 2.69 | \$ 10.24 | \$ 9.06 |
| Shares used in the calculation of earnings per share: | | | |
| Basic | 731 | 748 | 758 |
| Diluted | 735 | 754 | 766 |

See accompanying notes.

AMGEN INC.
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
Years ended December 31, 2017, 2016 and 2015
(In millions)

| | 2017 | 2016 | 2015 |
|---|----------|----------|----------|
| Net income | \$ 1,979 | \$ 7,722 | \$ 6,939 |
| Other comprehensive (loss) income, net of reclassification adjustments and taxes: | | | |
| Foreign currency translation gains (losses) | 81 | (99) | (247) |
| Effective portion of cash flow hedges | (288) | (15) | 7 |
| Net unrealized (losses) gains on available-for-sale securities | (6) | 122 | (241) |
| Other | 5 | 1 | 9 |
| Other comprehensive (loss) income, net of tax | (208) | 9 | (472) |
| Comprehensive income | \$ 1,771 | \$ 7,731 | \$ 6,467 |

See accompanying notes.

AMGEN INC.
CONSOLIDATED BALANCE SHEETS
December 31, 2017 and 2016
(In millions, except per share data)

| | 2017 | 2016 |
|---|-----------|-----------|
| ASSETS | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 3,800 | \$ 3,241 |
| Marketable securities | 37,878 | 34,844 |
| Trade receivables, net | 3,237 | 3,165 |
| Inventories | 2,834 | 2,745 |
| Other current assets | 1,727 | 2,015 |
| Total current assets | 49,476 | 46,010 |
| Property, plant and equipment, net | 4,989 | 4,961 |
| Intangible assets, net | 8,609 | 10,279 |
| Goodwill | 14,761 | 14,751 |
| Other assets | 2,119 | 1,625 |
| Total assets | \$ 79,954 | \$ 77,626 |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | |
| Current liabilities: | | |
| Accounts payable | \$ 1,352 | \$ 917 |
| Accrued liabilities | 6,516 | 5,884 |
| Short-term borrowings and current portion of long-term debt | 1,152 | 4,403 |
| Total current liabilities | 9,020 | 11,204 |
| Long-term debt | 34,190 | 30,193 |
| Long-term deferred tax liabilities | 1,166 | 2,436 |
| Long-term tax liabilities | 9,099 | 2,419 |
| Other noncurrent liabilities | 1,238 | 1,499 |
| Contingencies and commitments | | |
| Stockholders' equity: | | |
| Common stock and additional paid-in capital; \$0.0001 par value per share; 2,750.0 shares authorized; outstanding—722.2 shares in 2017 and 738.2 shares in 2016 | 30,992 | 30,784 |
| Accumulated deficit | (5,072) | (438) |
| Accumulated other comprehensive loss | (679) | (471) |
| Total stockholders' equity | 25,241 | 29,875 |
| Total liabilities and stockholders' equity | \$ 79,954 | \$ 77,626 |

See accompanying notes.

AMGEN INC.

CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY

Years ended December 31, 2017, 2016 and 2015

(In millions)

| | Number of shares of common stock | Common stock and additional paid-in capital | Accumulated deficit | Accumulated other comprehensive loss | Total |
|---|---|--|------------------------|---|-----------|
| Balance at December 31, 2014 | 760.4 | \$ 30,410 | \$ (4,624) | \$ (8) | \$ 25,778 |
| Net income | — | — | 6,939 | — | 6,939 |
| Other comprehensive loss, net of tax | — | — | — | (472) | (472) |
| Dividends | — | — | (2,548) | — | (2,548) |
| Issuance of common stock in connection with the Company's equity award programs | 5.6 | 82 | — | — | 82 |
| Stock-based compensation expense | — | 319 | — | — | 319 |
| Tax impact related to employee stock-based compensation expense | — | (162) | — | — | (162) |
| Repurchases of common stock | (12.0) | — | (1,853) | — | (1,853) |
| Balance at December 31, 2015 | 754.0 | 30,649 | (2,086) | (480) | 28,083 |
| Net income | — | — | 7,722 | — | 7,722 |
| Other comprehensive income, net of tax | — | — | — | 9 | 9 |
| Dividends | — | — | (3,120) | — | (3,120) |
| Issuance of common stock in connection with the Company's equity award programs | 3.9 | 55 | — | — | 55 |
| Stock-based compensation expense | — | 342 | — | — | 342 |
| Tax impact related to employee stock-based compensation expense | — | (262) | 73 | — | (189) |
| Repurchases of common stock | (19.7) | — | (3,027) | — | (3,027) |
| Balance at December 31, 2016 | 738.2 | 30,784 | (438) | (471) | 29,875 |
| Net income | — | — | 1,979 | — | 1,979 |
| Other comprehensive loss, net of tax | — | — | — | (208) | (208) |
| Dividends | — | — | (3,487) | — | (3,487) |
| Issuance of common stock in connection with the Company's equity award programs | 2.5 | 52 | — | — | 52 |
| Stock-based compensation expense | — | 347 | — | — | 347 |
| Tax impact related to employee stock-based compensation expense | — | (191) | — | — | (191) |
| Repurchases of common stock | (18.5) | — | (3,126) | — | (3,126) |
| Balance at December 31, 2017 | 722.2 | \$ 30,992 | \$ (5,072) | \$ (679) | \$ 25,241 |

See accompanying notes.

AMGEN INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS
Years ended December 31, 2017, 2016 and 2015
(In millions)

| | 2017 | 2016 | 2015 |
|--|-----------------|-----------------|-----------------|
| Cash flows from operating activities: | | | |
| Net income | \$ 1,979 | \$ 7,722 | \$ 6,939 |
| Depreciation and amortization | 1,955 | 2,105 | 2,108 |
| Stock-based compensation expense | 329 | 311 | 322 |
| Deferred income taxes | (1,330) | 183 | (607) |
| Other items, net | 334 | 32 | (146) |
| Changes in operating assets and liabilities, net of acquisitions: | | | |
| Trade receivables, net | (58) | (214) | (420) |
| Inventories | 133 | (80) | 481 |
| Other assets | (24) | (128) | 155 |
| Accounts payable | 424 | (44) | (12) |
| Accrued income taxes, net | 523 | (301) | 509 |
| Long-term tax liability | 6,681 | 445 | 409 |
| Other liabilities | 231 | 323 | (7) |
| Net cash provided by operating activities | <u>11,177</u> | <u>10,354</u> | <u>9,731</u> |
| Cash flows from investing activities: | | | |
| Purchases of property, plant and equipment | (664) | (738) | (594) |
| Cash paid for acquisitions, net of cash acquired | (19) | — | (359) |
| Purchases of marketable securities | (33,607) | (28,094) | (25,977) |
| Proceeds from sales of marketable securities | 24,240 | 17,958 | 18,029 |
| Proceeds from maturities of marketable securities | 6,174 | 2,459 | 3,527 |
| Proceeds from sales of property, plant and equipment | 11 | 78 | 274 |
| Other | (159) | (321) | (447) |
| Net cash used in investing activities | <u>(4,024)</u> | <u>(8,658)</u> | <u>(5,547)</u> |
| Cash flows from financing activities: | | | |
| Net proceeds from issuance of debt | 4,476 | 7,318 | 3,465 |
| Repayment of debt | (4,405) | (3,725) | (2,400) |
| Repurchases of common stock | (3,160) | (2,965) | (1,867) |
| Dividends paid | (3,365) | (2,998) | (2,396) |
| Settlement of contingent consideration obligations | — | — | (253) |
| Withholding taxes arising from shares withheld for share-based payments | (191) | (260) | (401) |
| Other | 51 | 31 | 81 |
| Net cash used in financing activities | <u>(6,594)</u> | <u>(2,599)</u> | <u>(3,771)</u> |
| Increase (decrease) in cash and cash equivalents | 559 | (903) | 413 |
| Cash and cash equivalents at beginning of year | 3,241 | 4,144 | 3,731 |
| Cash and cash equivalents at end of year | <u>\$ 3,800</u> | <u>\$ 3,241</u> | <u>\$ 4,144</u> |

See accompanying notes.

AMGEN INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

December 31, 2017

1. Summary of significant accounting policies

Business

Amgen Inc. (including its subsidiaries, referred to as “Amgen,” “the Company,” “we,” “our” or “us”) is a global biotechnology pioneer that discovers, develops, manufactures and delivers innovative human therapeutics. We operate in one business segment: human therapeutics.

Principles of consolidation

The consolidated financial statements include the accounts of Amgen as well as its majority-owned subsidiaries. We do not have any significant interests in any variable interest entities. All material intercompany transactions and balances have been eliminated in consolidation.

Use of estimates

The preparation of consolidated financial statements in conformity with U.S. generally accepted accounting principles (GAAP) requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and accompanying notes. Actual results may differ from those estimates.

Product sales

Sales of our products are recognized when shipped and title and risk of loss have passed. Product sales are recorded net of accruals for estimated rebates, wholesaler chargebacks, discounts and other deductions (collectively, sales deductions) and returns. Taxes collected from customers and remitted to government authorities related to the sales of the Company’s products, primarily in Europe, are excluded from revenues.

Other revenues

Other revenues consist primarily of royalty income and corporate partner revenues. Royalties from licensees are based on third-party sales of licensed products and are recorded in accordance with contract terms when third-party results are reliably measurable and collectibility is reasonably assured. Royalty estimates are made in advance of amounts collected using historical and forecasted trends. Corporate partner revenues are composed mainly of license fees and milestones earned, our share of commercial profits generated from collaborations and amounts earned for certain research and development (R&D) services performed for others, including Kirin-Amgen, Inc. (K-A), which are recognized as the R&D services are performed. See Multiple-deliverable revenue arrangements, discussed below, Note 7, Collaborations, and Note 8, Related party transactions.

Multiple-deliverable revenue arrangements

From time to time, we enter into arrangements for the R&D, manufacture and/or commercialization of products and product candidates. These arrangements may require us to deliver various rights, services and/or goods across the entire life cycle of a product or product candidate, including (i) intellectual property rights/licenses; (ii) R&D services; (iii) manufacturing services; and/or (iv) commercialization services. The underlying terms of these arrangements generally provide for consideration to Amgen in the form of non-refundable upfront license payments, R&D and commercial performance milestone payments, cost sharing and/or royalty payments.

In arrangements involving the delivery of more than one element, each required deliverable is evaluated to determine whether it qualifies as a separate unit of accounting. For Amgen, this determination is generally based on whether the deliverable has “stand-alone value” to the customer. The arrangement’s consideration that is fixed and determinable is then allocated to each separate unit of accounting based on the relative selling price of each deliverable. The estimated selling price of each deliverable is determined using the following hierarchy of values: (i) vendor-specific objective evidence of fair value; (ii) third-party evidence of selling price; and (iii) best estimate of selling price (BESP). The BESP reflects our best estimate of what the selling price would be if the deliverable was regularly sold by us on a stand-alone basis. In general, the consideration allocated to each unit of accounting is recognized as the related goods or services are delivered, limited to the consideration that is not contingent upon future deliverables. Consideration associated with at-risk substantive performance milestones is recognized as revenue upon the achievement of the related milestone, as defined in the respective contracts.

Research and development costs

R&D costs are expensed as incurred and include primarily salaries, benefits and other staff-related costs; facilities and overhead costs; clinical trial and related clinical manufacturing costs; contract services and other outside costs; information systems' costs and amortization of acquired technology used in R&D with alternative future uses. R&D expenses also include costs and cost recoveries associated with third-party R&D arrangements, including upfront fees and milestones paid to third parties in connection with technologies which had not reached technological feasibility and did not have an alternative future use. Net payment or reimbursement of R&D costs is recognized when the obligations are incurred or as we become entitled to the cost recovery. See Note 7, Collaborations, and Note 8, Related party transactions.

Selling, general and administrative costs

Selling, general and administrative (SG&A) costs are composed primarily of salaries, benefits and other staff-related costs associated with sales and marketing, finance, legal and other administrative personnel; facilities and overhead costs; outside marketing, advertising and legal expenses; the U.S. healthcare reform federal excise fee on Branded Prescription Pharmaceutical Manufacturers and Importers; and other general and administrative costs. Advertising costs are expensed as incurred and were \$620 million, \$489 million and \$346 million during the years ended December 31, 2017, 2016 and 2015, respectively. SG&A expenses also include costs and cost recoveries associated with marketing and promotion efforts under certain collaborative arrangements. Net payment or reimbursement of SG&A costs is recognized when the obligations are incurred or we become entitled to the cost recovery. See Note 7, Collaborations.

Stock-based compensation

We have stock-based compensation plans under which various types of equity-based awards are granted, including restricted stock units (RSUs), performance units and stock options. The fair values of RSUs and stock option awards, which are subject only to service conditions with graded vesting, are recognized as compensation expense, generally on a straight-line basis over the service period, net of estimated forfeitures. The fair values of performance unit awards are recognized as compensation expense, generally on a straight-line basis from the grant date to the end of the performance period. See Note 4, Stock-based compensation.

Income taxes

We provide for income taxes based on pretax income and applicable tax rates available in the various jurisdictions in which we operate. Significant judgment is required in determining our provision for income taxes and income tax assets and liabilities, including evaluating uncertainties in the application of accounting principles and complex tax laws. Deferred income taxes are recorded for the expected tax consequences of temporary differences between the bases of assets and liabilities, as well as for loss and tax credit carryforwards for financial reporting purposes and amounts recognized for income tax purposes. We record a valuation allowance to reduce our deferred tax assets to the amount of future tax benefit that is more likely than not to be realized.

We recognize the tax benefit from an uncertain tax position only if it is more likely than not that the tax position will be sustained upon examination by the taxing authorities based on the technical merits of the position. The tax benefit recognized in the consolidated financial statements for a particular tax position is based on the largest benefit that is more likely than not to be realized. The amount of unrecognized tax benefits (UTBs) is adjusted as appropriate for changes in facts and circumstances, such as significant amendments to existing tax law, new regulations or interpretations by the taxing authorities, new information obtained during a tax examination, or resolution of an examination. We recognize both accrued interest and penalties, where appropriate, related to UTBs in income tax expense.

On December 22, 2017, the Securities and Exchange Commission (SEC) staff issued Staff Accounting Bulletin No. 118 (SAB 118) to address the accounting implications of the U.S. federal tax reform enacted on December 22, 2017. SAB 118 allows a company to record provisional amounts during a measurement period not to extend beyond one year of the enactment date. See Note 5, Income taxes.

Business combinations

Business combinations are accounted for using the acquisition method of accounting. Under the acquisition method, assets acquired, including in-process research and development (IPR&D) projects, and liabilities assumed are recorded at their respective fair values as of the acquisition date in our consolidated financial statements. The excess of the fair value of consideration transferred over the fair value of the net assets acquired is recorded as goodwill. Contingent consideration obligations incurred in connection with a business combination (including the assumption of an acquiree's liability arising from a business combination it consummated prior to our acquisition) are recorded at their fair values on the acquisition date and remeasured at their fair values each subsequent

reporting period until the related contingencies are resolved. The resulting changes in fair values are recorded in earnings. See Note 3, Business combinations, and Note 16, Fair value measurement.

Cash equivalents

We consider cash equivalents to be only those investments which are highly liquid, readily convertible to cash and which mature within three months from the date of purchase.

Available-for-sale investments

We consider our investment portfolio available-for-sale and, accordingly, these investments are recorded at fair value with unrealized gains and losses generally recorded in Accumulated other comprehensive income (loss) (AOCI). Investments with maturities beyond one year may be classified as short-term marketable securities in the Consolidated Balance Sheets due to their highly liquid nature and because they represent the Company's investments that are available for current operations. See Note 9, Available-for-sale investments, and Note 16, Fair value measurement.

Inventories

Inventories are stated at the lower of cost or net realizable value. Cost, which includes amounts related to materials, labor and overhead, is determined in a manner that approximates the first-in, first-out method. Net realizable value is the estimated selling price in the ordinary course of business, less reasonably predictable costs of completion, disposal and transportation. See Note 10, Inventories.

Derivatives

We recognize all of our derivative instruments as either assets or liabilities at fair value in the Consolidated Balance Sheets. The accounting for changes in the fair value of a derivative instrument depends upon whether the derivative has been formally designated and qualifies as part of a hedging relationship under the applicable accounting standards and, further, on the type of hedging relationship. For derivatives formally designated as hedges, we assess both at inception and quarterly thereafter, whether the hedging derivatives are highly effective in offsetting changes in either the fair value or cash flows of the hedged item. Our derivatives that are not designated and do not qualify as hedges are adjusted to fair value through current earnings. See Note 16, Fair value measurement, and Note 17, Derivative instruments.

Property, plant and equipment, net

Property, plant and equipment is recorded at historical cost, net of accumulated depreciation, amortization and, if applicable, impairment charges. We review our property, plant and equipment assets for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Depreciation is provided over the assets' useful lives on a straight-line basis. Leasehold improvements are amortized on a straight-line basis over the shorter of their estimated useful lives or lease terms. See Note 11, Property, plant and equipment.

Goodwill and other intangible assets

Finite-lived intangible assets are recorded at cost, net of accumulated amortization and, if applicable, impairment charges. Amortization of finite-lived intangible assets is provided over their estimated useful lives on a straight-line basis or the pattern in which economic benefits are consumed, if reliably determinable. We review our finite-lived intangible assets for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. See Note 12, Goodwill and other intangible assets.

The fair values of IPR&D projects acquired in a business combination which are not complete are capitalized and accounted for as indefinite-lived intangible assets until completion or abandonment of the related R&D efforts. Upon successful completion of the project, the capitalized amount is amortized over its estimated useful life. If a project is abandoned, all remaining capitalized amounts are written-off immediately. There are often major risks and uncertainties associated with IPR&D projects as we are required to obtain regulatory approvals in order to be able to market the resulting products. Such approvals require completing clinical trials that demonstrate a product candidate is safe and effective. Consequently, the eventual realized value of the acquired IPR&D project may vary from its fair value at the date of acquisition, and IPR&D impairment charges may occur in future periods.

Capitalized IPR&D projects are tested for impairment annually and whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. We consider various factors for potential impairment, including the current legal and regulatory environment and the competitive landscape. Adverse clinical trial results, significant delays in obtaining marketing

approval, the inability to bring a product to market and the introduction or advancement of competitors' products could result in partial or full impairment of the related intangible assets.

We perform an impairment test of goodwill annually and whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. To date, an impairment of goodwill has not been recorded. See Note 12, Goodwill and other intangible assets.

Contingencies

In the ordinary course of business, we are involved in various legal proceedings and other matters such as intellectual property disputes, contractual disputes, governmental investigations and class action suits which are complex in nature and have outcomes that are difficult to predict. Certain of these proceedings are discussed in Note 18, Contingencies and commitments. We record accruals for loss contingencies to the extent that we conclude that it is probable that a liability has been incurred and the amount of the related loss can be reasonably estimated. We consider all relevant factors when making assessments regarding these contingencies.

Foreign currency translation

The net assets of international subsidiaries where the local currencies have been determined to be the functional currencies are translated into U.S. dollars using current exchange rates. The U.S. dollar effects that arise from translating net assets of these subsidiaries at changing rates are recognized in AOCI. The earnings of these subsidiaries are translated into U.S. dollars using average exchange rates.

Recent accounting pronouncements

In May 2014, the Financial Accounting Standards Board (FASB) issued a new accounting standard that amends the guidance for the recognition of revenue from contracts with customers to transfer goods and services. The FASB has subsequently issued additional, clarifying standards to address issues arising from implementation of the new revenue recognition standard. The new revenue recognition standard and clarifying standards are effective for interim and annual periods beginning on January 1, 2018. The new standards are required to be adopted using either a full-retrospective or a modified-retrospective approach. We will adopt these standards using the modified-retrospective approach beginning in 2018. We have completed our impact assessment and do not anticipate a material impact to Total revenues in our Consolidated Statements of Income, accounting policies, business processes, internal controls or disclosures.

In January 2016, the FASB issued a new accounting standard that amends the accounting and disclosures of financial instruments, including a provision requiring that equity investments (except for investments accounted for under the equity method of accounting) be measured at fair value, with changes in fair value recognized in current earnings. The new standard is effective for interim and annual periods beginning on January 1, 2018. With the exception of equity investments currently being accounted for at cost, adjustments are applied using a modified-retrospective approach by reflecting adjustments through a cumulative-effect impact on retained earnings as of the beginning of the fiscal year of adoption. The new standard will be applied prospectively to investments currently accounted for at cost which had a carrying value of \$95 million as of December 31, 2017. Upon adoption, on January 1, 2018, we will record an immaterial adjustment to Retained earnings from AOCI, which represents the net unrealized gain on all equity investments with a readily determinable fair value as of December 31, 2017. The impact that this new standard will have on our Consolidated Statements of Income after adoption will depend on the changes in fair values of equity securities in our portfolio in the future. See Note 9, Available-for-sale investments for the fair value of all equity securities as of December 31, 2017.

In February 2016, the FASB issued a new accounting standard that amends the guidance for the accounting and disclosure of leases. This new standard requires that lessees recognize the assets and liabilities that arise from leases on the balance sheet, including leases classified as operating leases under current GAAP, and disclose qualitative and quantitative information about leasing arrangements. The new standard requires a modified-retrospective approach to adoption and is effective for interim and annual periods beginning on January 1, 2019, but may be adopted earlier. We expect to adopt this standard beginning in 2019. We do not expect that this standard will have a material impact on our Consolidated Statements of Income, but we do expect that upon adoption, this standard will have a material impact on our assets and liabilities on our Consolidated Balance Sheets. The primary effect of adoption will be the requirement to record right-of-use assets and corresponding lease obligations for current operating leases. In addition, the standard will require that we update our systems, processes and controls we use to track, record and account for our lease portfolio. We have selected a lease accounting information system and engaged third-party consultants to provide system implementation services. System readiness, including implementation and functionality of software procured from third-party providers, is essential to enable the preparation of financial information required for this standard.

In June 2016, the FASB issued a new accounting standard that amends the guidance for measuring and recording credit losses on financial assets measured at amortized cost by replacing the “incurred loss” model with an “expected loss” model. Accordingly, these financial assets will be presented at the net amount expected to be collected. This new standard also requires that credit losses related to available-for-sale debt securities be recorded as an allowance through net income rather than reducing the carrying amount under the current, other-than-temporary-impairment model. The new standard is effective for interim and annual periods beginning on January 1, 2020, but may be adopted earlier, beginning on January 1, 2019. With certain exceptions, adjustments are to be applied using a modified-retrospective approach by reflecting adjustments through a cumulative-effect impact on retained earnings as of the beginning of the fiscal year of adoption. We are currently evaluating the impact that this new standard will have on our consolidated financial statements.

In October 2016, the FASB issued a new accounting standard that amends the income tax accounting guidance for intra-entity transfers of assets other than inventory. The new standard requires that entities recognize the income tax consequences of an intercompany transfer of an asset, other than inventory, in the period the transfer occurs. The current exception to defer the recognition of any tax impact on intercompany transfers of inventory until the inventory is sold to a third party remains unaffected. The new standard is effective for interim and annual periods beginning on January 1, 2018. The standard will be applied prospectively to any transaction occurring on or after the adoption date. We have completed our impact assessment and do not anticipate a material impact on our consolidated financial statements.

In January 2017, the FASB issued a new accounting standard that changes the definition of a business to assist entities with the evaluation of when a set of assets acquired or disposed of should be considered a business. The new standard requires that an entity evaluate whether substantially all of the fair value of the gross assets acquired is concentrated in a single identifiable asset or group of similar identifiable assets; if so, the set of assets would not be considered a business. The new standard also requires that a business include at least one substantive process and narrows the definition of outputs. The new standard will be applied prospectively and is effective for interim and annual periods beginning on January 1, 2018. Adoption of this new standard may result in more transactions being accounted for as asset acquisitions versus business combinations; however, the impact on our consolidated financial statements will depend on the facts and circumstances of future transactions.

2. Restructuring

In 2014, we initiated a restructuring plan to invest in continuing innovation and the launch of our new pipeline molecules, while improving our cost structure. As part of the plan, we have closed facilities in Washington state and Colorado and are reducing the number of buildings we occupy at our headquarters in Thousand Oaks, California, as well as at other locations.

We estimate that we will incur \$825 million to \$900 million of pre-tax charges in connection with our restructuring, including: (i) separation and other headcount-related costs of \$560 million to \$600 million with respect to staff reductions and (ii) asset-related charges of \$265 million to \$300 million that consist primarily of asset impairments, accelerated depreciation and other related costs resulting from the consolidation of our worldwide facilities. Through December 31, 2017, we have incurred \$558 million of separation and other headcount-related costs and \$239 million of net asset-related charges. In order to support our ongoing transformation and process improvement efforts, we expect that we will incur most of the remaining costs in 2018.

The charges recorded during the years ended December 31, 2017 and 2016 were not material for all types of activities presented below. The following tables summarize charges recorded related to the restructuring plan by type of activity and the locations recognized within the Consolidated Statements of Income (in millions):

| | Year ended December 31, 2015 | | | | |
|-------------------------------------|------------------------------|---------------------------------|-----------------------------|--------------|---------------|
| | Separation costs | Asset impairments/ disposals | Accelerated depreciation | Other | Total |
| Cost of sales | \$ — | \$ — | \$ 50 | \$ 2 | \$ 52 |
| Research and development | — | — | 36 | 28 | 64 |
| Selling, general and administrative | — | — | 14 | 42 | 56 |
| Other | 49 | (111) | — | 4 | (58) |
| Total | \$ 49 | \$ (111) | \$ 100 | \$ 76 | \$ 114 |

| | Year ended December 31, 2014 | | | | |
|-------------------------------------|------------------------------|-------------------|-----------------------------|--------------|---------------|
| | Separation costs | Asset impairments | Accelerated depreciation | Other | Total |
| Cost of sales | \$ — | \$ 81 | \$ 23 | \$ — | \$ 104 |
| Research and development | — | — | 28 | 21 | 49 |
| Selling, general and administrative | — | — | 4 | 5 | 9 |
| Other | 377 | 6 | — | 13 | 396 |
| Total | \$ 377 | \$ 87 | \$ 55 | \$ 39 | \$ 558 |

We recognized asset impairment and accelerated depreciation charges in connection with our decision to exit Boulder and Longmont, Colorado, and Bothell and Seattle, Washington, and in connection with the consolidation of facilities in Thousand Oaks, California. The decision to close these manufacturing and R&D facilities was based principally on optimizing the utilization of our sites in the United States, which includes an expansion of our presence in the key U.S. biotechnology hubs of South San Francisco, California, and Cambridge, Massachusetts. During the year ended December 31, 2015, we recognized gains from the sale of assets related to these site closures.

The following table summarizes the expenses (excluding non-cash charges) and payments related to the restructuring plan (in millions):

| | Years ended December 31, | | |
|---|--------------------------|-------|-------|
| | Separation costs | Other | Total |
| Restructuring liabilities as of December 31, 2013 | \$ — | \$ — | \$ — |
| Expense | 353 | 32 | 385 |
| Payments | (132) | (9) | (141) |
| Restructuring liabilities as of December 31, 2014 | 221 | 23 | 244 |
| Expense | 52 | 80 | 132 |
| Payments | (178) | (80) | (258) |
| Restructuring liabilities as of December 31, 2015 | 95 | 23 | 118 |
| Expense | 6 | 13 | 19 |
| Payments | (90) | (27) | (117) |
| Restructuring liabilities as of December 31, 2016 | 11 | 9 | 20 |
| Expense | 72 | 7 | 79 |
| Payments | (20) | (11) | (31) |
| Restructuring liabilities as of December 31, 2017 | \$ 63 | \$ 5 | \$ 68 |

3. Business combinations

Dezima Pharma B.V.

In 2015, we acquired all of the outstanding stock of Dezima Pharma B.V. (Dezima) whose lead molecule is AMG 899 (formerly TA-8995), an oral, once-daily cholesteryl ester transfer protein inhibitor that had completed certain phase 2 trials. The aggregate acquisition date consideration to acquire Dezima was \$410 million, including \$110 million for the fair value of contingent consideration obligations related to the development of AMG 899. The fair values of assets acquired and liabilities assumed primarily included an IPR&D asset of \$400 million, goodwill of \$108 million (which is not deductible for tax purposes) and deferred tax liabilities of \$100 million. The goodwill was attributable primarily to the expected synergies and other benefits that we believed would result from expanding our cardiovascular portfolio with AMG 899; and the deferred tax consequences of acquired IPR&D recorded for financial statement purposes.

During the year ended December 31, 2017, we decided to discontinue the internal development of AMG 899, resulting in an impairment charge of \$400 million for the IPR&D asset and the release of the then fair value of the related contingent consideration liabilities of \$116 million. See Note 16, Fair value measurement.

4. Stock-based compensation

Our Amended and Restated 2009 Equity Incentive Plan (the Amended 2009 Plan) authorizes for issuance, shares of our common stock pursuant to grants of equity-based awards, including RSUs, stock options and performance units to employees of Amgen, its subsidiaries and non-employee members of our Board of Directors. The pool of shares available under the Amended 2009 Plan is reduced by one share for each stock option granted and by 1.9 shares for other types of awards granted, including RSUs and performance units (full-value awards). In general, if any shares subject to an award granted under the Amended 2009 Plan expire, or are forfeited, terminated or canceled without the issuance of shares, the shares subject to such awards are added back into the authorized pool on the same basis that they were removed. In addition, under the Amended 2009 Plan, shares withheld to pay for minimum statutory tax obligations with respect to full value awards are added back into the authorized pool on the basis of 1.9 shares. As of December 31, 2017, the Amended 2009 Plan provides for future grants and/or issuances of up to 36 million shares of our common stock. Stock-based awards under our employee compensation plans are made with newly issued shares reserved for this purpose.

The following table reflects the components of stock-based compensation expense recognized in our Consolidated Statements of Income (in millions):

| | Years ended December 31, | | |
|--|--------------------------|--------|--------|
| | 2017 | 2016 | 2015 |
| RSUs | \$ 174 | \$ 177 | \$ 190 |
| Performance units | 133 | 123 | 132 |
| Stock options | 22 | 11 | — |
| Total stock-based compensation expense, pretax | 329 | 311 | 322 |
| Tax benefit from stock-based compensation expense | (118) | (112) | (120) |
| Total stock-based compensation expense, net of tax | \$ 211 | \$ 199 | \$ 202 |

Restricted stock units and stock options

Eligible employees generally receive an annual grant of RSUs and, for certain executive level employees, stock options, with the size and type of award generally determined by the employee's salary grade and performance level. In 2016, we reinstated the practice of granting stock options to eligible employees annually, which had been suspended from 2012 through 2015. In addition, certain management and professional-level employees typically receive RSU grants upon commencement of employment. Non-employee members of our Board of Directors also receive an annual grant of RSUs.

Our RSU and stock option grants provide for accelerated or continued vesting in certain circumstances as defined in the plans and related grant agreements, including upon death, disability, termination in connection with a change in control and the retirement of employees who meet certain service and/or age requirements. RSUs and stock options generally vest in equal amounts on the second, third and fourth anniversaries of the grant date. RSUs accrue dividend equivalents which are typically payable in shares only when and to the extent the underlying RSUs vest and are issued to the recipient.

Restricted stock units

The grant date fair value of an RSU equals the closing price of our common stock on the grant date, as RSUs accrue dividend equivalents during their vesting period. The weighted-average grant date fair values of RSUs granted during the years ended

December 31, 2017, 2016 and 2015 were \$163.99, \$156.76 and \$166.74, respectively. The following table summarizes information regarding our RSUs:

| | Year ended December 31, 2017 | |
|--|------------------------------|--|
| | Units (in millions) | Weighted-average grant date fair value |
| Balance nonvested at December 31, 2016 | 3.9 | \$ 141.07 |
| Granted | 1.3 | \$ 163.99 |
| Vested | (1.5) | \$ 125.32 |
| Forfeited | (0.3) | \$ 149.79 |
| Balance nonvested at December 31, 2017 | 3.4 | \$ 155.11 |

The total grant date fair values of RSUs that vested during the years ended December 31, 2017, 2016 and 2015, were \$182 million, \$193 million and \$206 million, respectively.

As of December 31, 2017, there was \$304 million of unrecognized compensation cost related to nonvested RSU awards, which is expected to be recognized over a weighted-average period of 1.8 years.

Stock options

The exercise price for stock options is set as the closing price of our common stock on the grant date and the related number of shares granted is fixed at that point in time. Awards expire 10 years from the date of grant. We use a Black-Scholes option valuation model to estimate the grant date fair value of stock options. The weighted-average assumptions used in the option valuation model and the resulting weighted-average grant date fair values of stock options granted were as follows:

| | Years ended December 31, | |
|--|--------------------------|-----------|
| | 2017 | 2016 |
| Closing price of our common stock on grant date | \$ 162.60 | \$ 156.35 |
| Expected volatility (average of implied and historical volatility) | 22.7% | 24.3% |
| Expected life (in years) | 5.8 | 5.8 |
| Risk-free interest rate | 2.1% | 1.5% |
| Expected dividend yield | 2.8% | 2.6% |
| Fair value of stock options granted | \$ 27.54 | \$ 27.55 |

The following table summarizes information regarding our stock options:

| | Year ended December 31, 2017 | | | |
|---|------------------------------|--|---|--|
| | Options (in millions) | Weighted- average exercise price | Weighted- average remaining contractual life (in years) | Aggregate intrinsic value (in millions) |
| Balance unexercised at December 31, 2016 | 3.1 | \$ 100.21 | | |
| Granted | 1.5 | \$ 162.60 | | |
| Exercised | (0.5) | \$ 57.24 | | |
| Expired/forfeited | (0.1) | \$ 159.13 | | |
| Balance unexercised at December 31, 2017 | 4.0 | \$ 127.08 | 6.9 | \$ 186 |
| Vested or expected to vest at December 31, 2017 | 3.7 | \$ 124.84 | 6.8 | \$ 182 |
| Exercisable at December 31, 2017 | 1.3 | \$ 58.23 | 2.8 | \$ 147 |

The total intrinsic values of options exercised during the years ended December 31, 2017, 2016 and 2015, were \$60 million, \$102 million and \$150 million, respectively. The actual tax benefits realized from tax deductions from option exercises during the years ended December 31, 2017, 2016 and 2015, were \$21 million, \$37 million and \$55 million, respectively.

Performance units

Certain management-level employees also receive annual grants of performance units, which give the recipient the right to receive common stock that is contingent upon achievement of specified pre-established goals over the performance period, which is generally three years. The performance goals for the units granted during the years ended December 31, 2017, 2016 and 2015, which are accounted for as equity awards, are based upon Amgen's stockholder return compared with a comparator group of companies, which are considered market conditions and are reflected in the grant date fair values of the units, and for units granted during the years ended December 31, 2017 and 2016, Amgen's standalone financial performance measures, which are considered performance conditions. The expense recognized for awards granted during the years ended December 31, 2017 and 2016 are based on the grant date fair value of a unit multiplied by the number of units expected to be earned with respect to the performance conditions, net of estimated forfeitures. The expense recognized for the awards granted during the year ended December 31, 2015 was based on the grant date fair value of a unit multiplied by the number of units granted, net of estimated forfeitures. Depending on the outcome of these performance goals, a recipient may ultimately earn a number of units greater or less than the number of units granted. Shares of our common stock are issued on a one-for-one basis for each performance unit earned. In general, performance unit awards vest at the end of the performance period. The performance award program provides for accelerated or continued vesting in certain circumstances as defined in the plan, including upon death, disability, a change in control and retirement of employees who meet certain service and/or age requirements. Performance units accrue dividend equivalents which are typically payable in shares only when and to the extent the underlying performance units vest and are issued to the recipient, including with respect to market and performance conditions that affect the number of performance units earned.

We use a payout simulation model to estimate the grant date fair value of performance units. The weighted-average assumptions used in this model and the resulting weighted-average grant date fair values of performance units granted were as follows:

| | Years ended December 31, | | |
|---|--------------------------|-----------|-----------|
| | 2017 | 2016 | 2015 |
| Closing price of our common stock on grant date | \$ 162.60 | \$ 156.35 | \$ 164.26 |
| Volatility | 25.9% | 25.8% | 24.3% |
| Risk-free interest rate | 1.4% | 0.9% | 0.8% |
| Fair value of units granted | \$ 178.87 | \$ 170.56 | \$ 182.55 |

The payout simulation model assumes correlations of returns of the stock prices of our common stock and the common stocks of the comparator groups of companies and stock price volatilities of the comparator groups of companies.

As of December 31, 2017 and 2016, 2.2 million and 2.8 million performance units were outstanding with weighted-average grant date fair values of \$177.16 and \$144.43 per unit, respectively. During the year ended December 31, 2017, 0.8 million performance units with a weighted-average grant date fair value of \$178.87 were granted and 0.1 million performance units with a weighted-average grant date fair value of \$179.58 were forfeited.

The total fair values of performance units that vested during the years ended December 31, 2017 and 2016 were \$219 million and \$347 million, respectively, based upon the number of performance units earned multiplied by the closing stock price of our common stock on the last day of the performance period. No performance units vested during the year ended December 31, 2015.

As of December 31, 2017, there was \$144 million of unrecognized compensation cost that is expected to be recognized over a weighted-average period of 1 year.

5. Income taxes

On December 22, 2017, the United States enacted major tax reform legislation, Public Law No. 115-97, commonly referred to as the Tax Cuts and Jobs Act (2017 Tax Act). The 2017 Tax Act imposes a repatriation tax on accumulated earnings of foreign subsidiaries, implements a territorial tax system together with a current tax on certain foreign earnings and lowers the general corporate income tax rate to 21%. On December 22, 2017, the SEC staff issued SAB 118 that allows us to record provisional amounts during a measurement period not to extend beyond one year of the enactment date. We currently are analyzing the 2017

Tax Act, and in certain areas, have made reasonable estimates of the effects on our consolidated financial statements and tax disclosures, including the amount of the repatriation tax and changes to our existing deferred tax balances.

The repatriation tax is based primarily on our accumulated foreign earnings and profits that we previously deferred from U.S. income taxes. We recorded an estimated amount for our repatriation tax liability of \$7.3 billion as of December 31, 2017. See Note 18, Contingencies and commitments. We no longer reinvest our undistributed earnings of our foreign operations indefinitely outside the United States. In addition, we remeasured certain net deferred and other tax liabilities based on the tax rates at which they are expected to reverse in the future. The estimated amount recorded related to the remeasurement of these balances was a net benefit of \$1.2 billion. The net estimated impact of the 2017 Tax Act is \$6.1 billion.

We consider the key estimates on the repatriation tax, net deferred tax remeasurement and the impact on our unrealized tax benefits to be incomplete due to our continuing analysis of final year-end data and tax positions. Our analysis could affect the measurement of these balances and give rise to new deferred and other tax assets and liabilities. Since the 2017 Tax Act was passed late in the fourth quarter of 2017, and further guidance and accounting interpretation is expected over the next 12 months, our review is still pending. We expect to complete our analysis within the measurement period.

Income before income taxes included the following (in millions):

| | Years ended December 31, | | |
|----------------------------------|--------------------------|----------|----------|
| | 2017 | 2016 | 2015 |
| Domestic | \$ 4,436 | \$ 4,478 | \$ 3,532 |
| Foreign | 5,161 | 4,685 | 4,446 |
| Total income before income taxes | \$ 9,597 | \$ 9,163 | \$ 7,978 |

The provision for income taxes included the following (in millions):

| | Years ended December 31, | | |
|------------------------------------|--------------------------|----------|----------|
| | 2017 | 2016 | 2015 |
| Current provision: | | | |
| Federal | \$ 8,615 | \$ 984 | \$ 1,129 |
| State | 5 | 65 | 40 |
| Foreign | 275 | 176 | 272 |
| Total current provision | 8,895 | 1,225 | 1,441 |
| Deferred (benefit) provision: | | | |
| Federal | (1,120) | 372 | (290) |
| State | — | (69) | (78) |
| Foreign | (157) | (87) | (34) |
| Total deferred (benefit) provision | (1,277) | 216 | (402) |
| Total provision for income taxes | \$ 7,618 | \$ 1,441 | \$ 1,039 |

Deferred income taxes reflect the tax effect of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes, tax credit carryforwards and the tax effects of net operating loss (NOL) carryforwards.

Significant components of our deferred tax assets and liabilities were as follows (in millions):

| | December 31, | |
|--|-------------------|-------------------|
| | 2017 | 2016 |
| Deferred income tax assets: | | |
| NOL and credit carryforwards | \$ 812 | \$ 688 |
| Accrued expenses | 362 | 562 |
| Expenses capitalized for tax | 155 | 255 |
| Stock-based compensation | 99 | 167 |
| Other | 154 | 117 |
| Total deferred income tax assets | 1,582 | 1,789 |
| Valuation allowance | (497) | (381) |
| Net deferred income tax assets | 1,085 | 1,408 |
| Deferred income tax liabilities: | | |
| Acquired intangible assets | (1,748) | (3,139) |
| Debt | (184) | (345) |
| Other | (240) | (307) |
| Total deferred income tax liabilities | (2,172) | (3,791) |
| Total deferred income taxes, net | \$ (1,087) | \$ (2,383) |

Valuation allowances are provided to reduce the amounts of our deferred tax assets to an amount that is more likely than not to be realized based on an assessment of positive and negative evidence, including estimates of future taxable income necessary to realize future deductible amounts.

The valuation allowance increased in 2017 due primarily to the Company's expectation that some state R&D credits and foreign NOLs will not be utilized. This increase was offset partially by the release of state R&D credits projected to be utilized in 2018 related to the repatriation tax on foreign earnings. The valuation allowance increased in 2016 due primarily to the Company's expectation that some state R&D credits will not be utilized. This increase was offset partially by valuation allowance releases due to sufficient positive evidence to conclude that it is more likely than not that certain foreign NOL carryforwards are realizable.

As of December 31, 2017, we had \$20 million of federal tax credit carryforwards available to reduce future federal income taxes and have provided no valuation allowance for those federal tax credit carryforwards. The federal tax credit carryforwards expire between 2026 and 2035. We had \$524 million of state tax credit carryforwards available to reduce future state income taxes and have provided a valuation allowance for \$392 million of those state tax credit carryforwards. The state credits for which no valuation allowance has been provided will begin to expire in 2022.

As of December 31, 2017, we had \$146 million of NOL carryforwards available to reduce future federal income taxes and have provided a valuation allowance for \$6 million of those federal NOL carryforwards. The federal NOL carryforwards, for which no valuation allowance has been provided, expire between 2020 and 2035. We had \$425 million of NOL carryforwards available to reduce future state income taxes and have provided a valuation allowance for \$400 million of those state NOL carryforwards. The state NOLs for which no valuation allowance has been provided expire between 2018 and 2032. We had \$2.0 billion of NOL carryforwards available to reduce future foreign income taxes and have provided a valuation allowance for \$819 million of those foreign NOL carryforwards. For the foreign NOLs with no valuation allowance provided, \$678 million has no expiry; and the remainder will expire starting in 2018.

The reconciliations of the total gross amounts of UTBs (excluding interest, penalties, foreign tax credits and the federal tax benefit of state taxes related to UTBs) were as follows (in millions):

| | Years ended December 31, | | |
|--|--------------------------|-----------------|-----------------|
| | 2017 | 2016 | 2015 |
| Beginning balance | \$ 2,543 | \$ 2,114 | \$ 1,772 |
| Additions based on tax positions related to the current year | 447 | 425 | 413 |
| Additions based on tax positions related to prior years | 1 | 18 | 9 |
| Reductions for tax positions of prior years | (5) | (7) | (32) |
| Reductions for expiration of statute of limitations | (5) | — | — |
| Settlements | (28) | (7) | (48) |
| Ending balance | <u>\$ 2,953</u> | <u>\$ 2,543</u> | <u>\$ 2,114</u> |

Substantially all of the UTBs as of December 31, 2017, if recognized, would affect our effective tax rate. During the year ended December 31, 2017, we effectively settled various examinations with federal and state tax authorities for prior tax years. As a result of these developments, we remeasured our UTBs accordingly. As of December 31, 2017, we believe it is reasonably possible that our gross liabilities for UTBs may decrease by approximately \$63 million within the succeeding 12 months due to the resolution of state examinations.

Interest and penalties related to UTBs are included in our provision for income taxes. During the years ended December 31, 2017, 2016 and 2015, we recognized \$56 million, \$125 million and \$17 million, respectively, of interest and penalties through the income tax provision in the Consolidated Statements of Income. As of December 31, 2017 and 2016, accrued interest and penalties associated with UTBs were \$332 million and \$276 million, respectively.

The reconciliations between the federal statutory tax rate applied to income before income taxes and our effective tax rate were as follows:

| | Years ended December 31, | | |
|--|--------------------------|---------------|---------------|
| | 2017 | 2016 | 2015 |
| Federal statutory tax rate | 35.0 % | 35.0 % | 35.0 % |
| 2017 Tax Act, net repatriation tax | 71.5 % | — % | — % |
| Foreign earnings | (15.8)% | (15.5)% | (18.1)% |
| 2017 Tax Act, net deferred tax remeasurement | (7.7)% | — % | — % |
| Credits, Puerto Rico Excise Tax | (2.2)% | (2.3)% | (2.5)% |
| Share-based payments | (0.7)% | (1.3)% | — % |
| Credits, primarily federal R&D | (0.6)% | (0.7)% | (1.4)% |
| State taxes | 0.3 % | 0.1 % | 0.1 % |
| Audit settlements (federal, state, foreign) | (0.3)% | — % | (0.5)% |
| Other, net | (0.1)% | 0.4 % | 0.4 % |
| Effective tax rate | <u>79.4 %</u> | <u>15.7 %</u> | <u>13.0 %</u> |

The effective tax rates for the year ended December 31, 2017, differ from the federal statutory rates due primarily to impacts of the 2017 Tax Act, including the repatriation tax on accumulated foreign earnings, offset partially by the remeasurement of certain net deferred and other tax liabilities. The effective tax rates for 2016 and 2015 differ from the federal statutory rates primarily as a result of indefinitely invested earnings of our foreign operations. In the past, we have not provided for U.S. income taxes on undistributed earnings of our foreign operations that were intended to be invested indefinitely outside the United States. Substantially all of the foreign earnings that impact our effective tax rate results from foreign income associated with the Company's operation conducted in Puerto Rico, a territory of the United States, that is treated as a foreign jurisdiction for U.S. tax purposes, and is subject to tax incentive grants through 2035.

The U.S. territory of Puerto Rico imposes an excise tax on the gross intercompany purchase price of goods and services from our manufacturer in Puerto Rico. The rate of 4% is effective through December 31, 2027. We account for the excise tax as a manufacturing cost that is capitalized in inventory and expensed in cost of sales when the related products are sold. For U.S. income

tax purposes, the excise tax results in foreign tax credits that are generally recognized in our provision for income taxes when the excise tax is incurred.

Income taxes paid during the years ended December 31, 2017, 2016 and 2015, were \$1.5 billion, \$1.1 billion and \$919 million, respectively.

One or more of our legal entities file income tax returns in the U.S. federal jurisdiction, various U.S. state jurisdictions and certain foreign jurisdictions. Our income tax returns are routinely audited by the tax authorities in those jurisdictions. Significant disputes may arise with authorities involving issues of the timing and amount of deductions, the use of tax credits and allocations of income and expenses among various tax jurisdictions because of differing interpretations of tax laws, regulations and the interpretation of the relevant facts. As previously disclosed, we received a Revenue Agent Report (RAR) from the Internal Revenue Service (IRS) for the years 2010, 2011 and 2012. The RAR proposes to make significant adjustments that relate primarily to the allocation of profits between certain of our entities in the United States and the U.S. territory of Puerto Rico. On November 29, 2017, we received a modified RAR that revised their calculation but continued to propose substantial adjustments. We disagree with the proposed adjustments and are pursuing resolution through the IRS administrative appeals process, which we believe will likely not be concluded within the next 12 months. Final resolution of the IRS audit could have a material impact on our results of operations and cash flows if not resolved favorably, however, we believe our income tax reserves are appropriately provided for all open tax years. We are no longer subject to U.S. federal income tax examinations for years ended on or before December 31, 2009. In addition, we are currently under examination by a number of other state and foreign tax jurisdictions.

6. Earnings per share

The computation of basic earnings per share (EPS) is based on the weighted-average number of our common shares outstanding. The computation of diluted EPS is based on the weighted-average number of our common shares outstanding and dilutive potential common shares, which include primarily shares that may be issued under our stock option, restricted stock and performance unit award programs, as determined using the treasury stock method (collectively, dilutive securities).

The computation for basic and diluted EPS was as follows (in millions, except per share data):

| | Years ended December 31, | | |
|---|--------------------------|----------|----------|
| | 2017 | 2016 | 2015 |
| Income (Numerator): | | | |
| Net income for basic and diluted EPS | \$ 1,979 | \$ 7,722 | \$ 6,939 |
| Shares (Denominator): | | | |
| Weighted-average shares for basic EPS | 731 | 748 | 758 |
| Effect of dilutive securities | 4 | 6 | 8 |
| Weighted-average shares for diluted EPS | 735 | 754 | 766 |
| Basic EPS | \$ 2.71 | \$ 10.32 | \$ 9.15 |
| Diluted EPS | \$ 2.69 | \$ 10.24 | \$ 9.06 |

For each of the three years ended December 31, 2017, the number of anti-dilutive employee stock-based awards excluded from the computation of diluted EPS was not significant.

7. Collaborations

A collaborative arrangement is a contractual arrangement that involves a joint operating activity. Such arrangements involve two or more parties that are both: (i) active participants in the activity and (ii) exposed to significant risks and rewards dependent on the commercial success of the activity.

From time to time, we enter into collaborative arrangements for the R&D, manufacture and/or commercialization of products and/or product candidates. These collaborations generally provide for non-refundable upfront license fees, development and commercial-performance milestone payments, cost sharing, royalty payments and/or profit sharing. Our collaboration arrangements are performed with no guarantee of either technological or commercial success, and each is unique in nature. Our significant arrangements are discussed below.

Novartis AG

In April 2017, we expanded our existing migraine collaboration with Novartis AG (Novartis). In the United States, Amgen and Novartis will jointly develop and collaborate on the commercialization of Aimovig™. Amgen, as the principal, will recognize product sales of Aimovig™ in the United States, will share U.S. commercialization costs with Novartis and will pay Novartis a significant royalty on net sales in the United States. Novartis holds global co-development rights and exclusive commercial rights outside the United States and Japan for Aimovig™ and other specified migraine programs. Novartis will pay Amgen double-digit royalties on net sales of the products in the Novartis exclusive territories. Novartis will fund a portion of global R&D expenses. Novartis will also make payments to Amgen that could collectively amount to approximately \$400 million if certain regulatory events occur and commercial thresholds are achieved with respect to Aimovig™ in the United States. Amgen will manufacture and supply Aimovig™ worldwide.

The migraine collaboration will continue for the commercial life of the products unless terminated in accordance with its terms.

During the years ended December 31, 2017, 2016 and 2015, costs recovered from Novartis for the migraine products were \$124 million, \$33 million and \$6 million, respectively. Costs recovered were recorded primarily in Research and development expense in the Consolidated Statements of Income. During the year ended December 31, 2017, we received a milestone payment of \$60 million from Novartis, which was recorded in Other revenues in the Consolidated Statement of Income. During the year ended December 31, 2015, we paid an upfront license fee of \$30 million to Novartis, which was recorded in Research and development expense in the Consolidated Statement of Income.

Pfizer Inc.

The co-promotion term of our Enbrel® collaboration agreement with Pfizer Inc. (Pfizer) in the United States and Canada expired on October 31, 2013. Under this agreement, we paid Pfizer a profit share until October 31, 2013, and residual royalties from November 1, 2013 to October 31, 2016, which were significantly less than the profit share payments. In 2015 and 2016, the residual royalty payments ranged from 11% to 10% of annual net ENBREL sales in the United States and Canada. Effective November 1, 2016, there are no further royalty payments.

During the years ended December 31, 2016 and 2015, residual royalties due to Pfizer on ENBREL sales were \$470 million and \$561 million, respectively. These amounts were recorded in Selling, general and administrative expense in the Consolidated Statements of Income.

UCB

We are in a collaboration with UCB for the development and commercialization of EVENITY™. In 2016, we amended the commercialization rights and responsibilities of the parties. Under the amended agreement, we have the rights to commercialize EVENITY™ for all indications in the United States, Japan and Hong Kong. UCB has the rights for Europe, China and Brazil. The rest of the countries have been allocated to Amgen. Generally, development costs and future worldwide commercialization profits and losses related to the collaboration after accounting for expenses are shared equally. The collaboration agreement will continue in effect unless terminated earlier in accordance with its terms. During the years ended December 31, 2017, 2016 and 2015, the net costs recovered from UCB were \$56 million, \$48 million and \$60 million, respectively, which were recorded primarily in Research and development expense in the Consolidated Statements of Income.

Bayer HealthCare Pharmaceuticals Inc.

We are in a collaboration with Bayer HealthCare Pharmaceuticals Inc. (Bayer) to jointly develop and commercialize Nexavar® worldwide, except in Japan. The rights to develop and market Nexavar® in Japan are reserved to Bayer. Nexavar® is currently marketed and sold in more than 100 countries around the world for the treatment of unresectable liver cancer and advanced kidney cancer. In the United States, Nexavar® is also approved for the treatment of patients with locally recurrent or metastatic, progressive, differentiated thyroid carcinoma refractory to radioactive iodine treatment.

In 2015, we amended the terms of our collaboration agreement with Bayer, which terminated the co-promotion agreement in the United States, and transferred all U.S. operational responsibilities to Bayer, including commercial and medical affairs activities. Prior to the termination of the co-promotion agreement, we co-promoted Nexavar® with Bayer and shared equally in the profits or losses in the United States. In lieu of this profit share, Bayer now pays Amgen a royalty on U.S. sales of Nexavar® at a percentage rate in the high 30s. Amgen no longer contributes sales force personnel or medical liaisons to support Nexavar® in the United States. There are no changes to the global R&D or non-U.S. profit share arrangements in the original agreement, as discussed below.

In all countries outside the United States, excluding Japan, Bayer manages all commercialization activities and incurs all of the sales and marketing expenditures and mutually agreed R&D expenses, for which we continue to reimburse Bayer for half. In these countries, we continue to receive 50% of net profits on sales of Nexavar[®] after deducting certain Bayer-related costs.

The agreement with Bayer will terminate at the later of the date when patents expire that were issued in connection with product candidates discovered under the agreement, or on the last day when we or Bayer market or sell products commercialized under the agreement anywhere in the world.

During the years ended December 31, 2017, 2016 and 2015, Amgen recorded Nexavar[®] net profits of \$161 million, \$167 million and \$257 million, respectively, which were recognized as Other revenues in the Consolidated Statements of Income. During the years ended December 31, 2017, 2016 and 2015, Amgen recorded royalty income of \$133 million, \$137 million and \$72 million, respectively, in Other revenues in the Consolidated Statements of Income, pursuant to the 2015 amendment to the collaboration agreement. Net R&D expenses related to the agreement were not material for the years ended December 31, 2017, 2016, and 2015.

Other

In addition to the collaborations discussed above, we have various others that are not individually significant to our business at this time. Pursuant to the terms of those agreements, we may be required to pay or we may receive additional amounts upon the achievement of various development and commercial milestones which in the aggregate could be significant. We may also incur or have reimbursed to us significant R&D costs if the related product candidate were to advance to late stage clinical trials. In addition, if any products related to these collaborations are approved for sale, we may be required to pay or we may receive significant royalties on future sales. The payment of these amounts, however, is contingent upon the occurrence of various future events, which have a high degree of uncertainty of occurrence.

8. Related party transactions

As of December 31, 2017 and 2016, we owned a 50% interest in K-A, a corporation formed in 1984 with Kirin Holdings Company, Limited (Kirin) for the development and commercialization of certain products based on advanced biotechnology. All of our rights to manufacture and market certain products including pegfilgrastim, granulocyte colony-stimulating factor, darbepoetin alfa, recombinant human erythropoietin and romiplostim are pursuant to exclusive licenses from K-A, which we currently market under the brand names Neulasta[®], NEUPOGEN[®]/GRANULOKINE[®], Aranesp[®], EPOGEN[®] and Nplate[®], respectively. On October 30, 2017, we announced that we agreed to acquire the remaining 50% ownership of K-A from Kirin. The transaction will be accounted for as a business combination and was completed in the first quarter of 2018, making K-A a wholly owned subsidiary of Amgen. See Note 21, Subsequent event.

Prior to the closing of the share acquisition, we accounted for our interest in K-A using the equity method and included our share of K-A's profits or losses in Selling, general and administrative expense in the Consolidated Statements of Income. For the years ended December 31, 2017, 2016 and 2015, our share of K-A's profits was \$68 million, \$58 million and \$65 million, respectively. The carrying value of our equity method investment in K-A was \$570 million and \$501 million as of December 31, 2017 and 2016, respectively, and is included in Other assets in the Consolidated Balance Sheets.

K-A's revenues consist of royalty income related to its licensed technology rights. K-A receives royalty income from us, as well as from Kirin and Johnson & Johnson (J&J) under separate product license contracts for certain geographic areas outside the United States. During the years ended December 31, 2017, 2016 and 2015, K-A earned royalties from us of \$221 million, \$239 million and \$264 million, respectively. These amounts are included in Cost of sales in the Consolidated Statements of Income.

K-A's expenses consist primarily of costs related to R&D activities conducted on its behalf by Amgen and Kirin. K-A pays Amgen and Kirin for such services at negotiated rates. During the years ended December 31, 2017, 2016 and 2015, we earned revenues from K-A of \$28 million, \$31 million and \$65 million, respectively, for certain R&D activities performed on K-A's behalf. These amounts are recognized as Other revenues in the Consolidated Statements of Income. Cost recoveries from K-A recorded during the year ended December 31, 2017 were insignificant. During the years ended December 31, 2016 and 2015, we recorded cost recoveries from K-A of \$7 million and \$90 million, respectively, related to certain third-party costs. These amounts are included in Research and development expense in the Consolidated Statements of Income.

As of December 31, 2017 and 2016, we owed K-A \$80 million and \$69 million, respectively, which is included in Accrued liabilities in the Consolidated Balance Sheets.

Subsequent to the closing of the share acquisition, K-A's results of operations will be included in our consolidated financial statements, and as a result, transactions between us and K-A will be eliminated in consolidation. License agreements with Kirin and J&J will remain in place.

9. Available-for-sale investments

The amortized cost, gross unrealized gains, gross unrealized losses and fair values of available-for-sale investments by type of security were as follows (in millions):

| Type of security | Year ended December 31, 2017 | | | |
|--|------------------------------|------------------------|-------------------------|------------|
| | Amortized cost | Gross unrealized gains | Gross unrealized losses | Fair value |
| U.S. Treasury securities | \$ 8,313 | \$ 1 | \$ (72) | \$ 8,242 |
| Other government-related debt securities: | | | | |
| U.S. | 225 | — | (2) | 223 |
| Foreign and other | 2,415 | 18 | (11) | 2,422 |
| Corporate debt securities: | | | | |
| Financial | 10,089 | 17 | (34) | 10,072 |
| Industrial | 9,688 | 34 | (52) | 9,670 |
| Other | 1,393 | 3 | (6) | 1,390 |
| Residential mortgage-backed securities | 2,198 | — | (30) | 2,168 |
| Other mortgage- and asset-backed securities | 2,312 | — | (15) | 2,297 |
| Money market mutual funds | 3,245 | — | — | 3,245 |
| Other short-term interest-bearing securities | 1,440 | — | — | 1,440 |
| Total interest-bearing securities | 41,318 | 73 | (222) | 41,169 |
| Equity securities | 135 | 14 | — | 149 |
| Total available-for-sale investments | \$ 41,453 | \$ 87 | \$ (222) | \$ 41,318 |

| Type of security | Year ended December 31, 2016 | | | |
|--|------------------------------|------------------------|-------------------------|------------|
| | Amortized cost | Gross unrealized gains | Gross unrealized losses | Fair value |
| U.S. Treasury securities | \$ 6,681 | \$ 1 | \$ (68) | \$ 6,614 |
| Other government-related debt securities: | | | | |
| U.S. | 302 | — | (3) | 299 |
| Foreign and other | 1,784 | 9 | (34) | 1,759 |
| Corporate debt securities: | | | | |
| Financial | 8,476 | 21 | (37) | 8,460 |
| Industrial | 8,793 | 59 | (63) | 8,789 |
| Other | 1,079 | 5 | (7) | 1,077 |
| Residential mortgage-backed securities | 1,968 | 1 | (29) | 1,940 |
| Other mortgage- and asset-backed securities | 1,731 | 1 | (13) | 1,719 |
| Money market mutual funds | 2,782 | — | — | 2,782 |
| Other short-term interest-bearing securities | 4,188 | — | — | 4,188 |
| Total interest-bearing securities | 37,784 | 97 | (254) | 37,627 |
| Equity securities | 127 | 31 | (4) | 154 |
| Total available-for-sale investments | \$ 37,911 | \$ 128 | \$ (258) | \$ 37,781 |

The fair values of available-for-sale investments by location in the Consolidated Balance Sheets were as follows (in millions):

| Consolidated Balance Sheets location | December 31, | |
|--------------------------------------|--------------|-----------|
| | 2017 | 2016 |
| Cash and cash equivalents | \$ 3,291 | \$ 2,783 |
| Marketable securities | 37,878 | 34,844 |
| Other assets | 149 | 154 |
| Total available-for-sale investments | \$ 41,318 | \$ 37,781 |

Cash and cash equivalents in the above table excludes bank account cash of \$509 million and \$458 million as of December 31, 2017 and 2016, respectively.

The fair values of available-for-sale interest-bearing security investments by contractual maturity, except for mortgage- and asset-backed securities that do not have a single maturity date, were as follows (in millions):

| Contractual maturity | December 31, | |
|---|--------------|-----------|
| | 2017 | 2016 |
| Maturing in one year or less | \$ 6,733 | \$ 8,393 |
| Maturing after one year through three years | 12,820 | 10,404 |
| Maturing after three years through five years | 13,836 | 12,157 |
| Maturing after five years through ten years | 3,263 | 2,974 |
| Maturing after ten years | 52 | 40 |
| Mortgage- and asset-backed securities | 4,465 | 3,659 |
| Total interest-bearing securities | \$ 41,169 | \$ 37,627 |

For the years ended December 31, 2017, 2016 and 2015, realized gains were \$172 million, \$306 million and \$132 million, respectively, and realized losses were \$213 million, \$367 million and \$208 million, respectively. The cost of securities sold is based on the specific identification method.

Information on the fair values and gross unrealized losses of available-for-sale investments in an unrealized loss position aggregated by type and length of time that the securities have been in a continuous loss position was as follows (in millions):

| Type of security as of December 31, 2017 | Less than 12 months | | 12 months or greater | |
|---|---------------------|-------------------|----------------------|-------------------|
| | Fair value | Unrealized losses | Fair value | Unrealized losses |
| U.S. Treasury securities | \$ 7,728 | \$ (70) | \$ 195 | \$ (2) |
| Other government-related debt securities: | | | | |
| U.S. | 188 | (1) | 34 | (1) |
| Foreign and other | 1,163 | (9) | 115 | (2) |
| Corporate debt securities: | | | | |
| Financial | 5,928 | (28) | 462 | (6) |
| Industrial | 5,760 | (43) | 612 | (9) |
| Other | 868 | (4) | 117 | (2) |
| Residential mortgage-backed securities | 1,838 | (24) | 276 | (6) |
| Other mortgage- and asset-backed securities | 1,777 | (12) | 250 | (3) |
| Total | \$ 25,250 | \$ (191) | \$ 2,061 | \$ (31) |

| Type of security as of December 31, 2016 | Less than 12 months | | 12 months or greater | |
|---|---------------------|-------------------|----------------------|-------------------|
| | Fair value | Unrealized losses | Fair value | Unrealized losses |
| U.S. Treasury securities | \$ 5,774 | \$ (68) | \$ — | \$ — |
| Other government-related debt securities: | | | | |
| U.S. | 201 | (3) | — | — |
| Foreign and other | 1,192 | (34) | 17 | — |
| Corporate debt securities: | | | | |
| Financial | 3,975 | (37) | 44 | — |
| Industrial | 3,913 | (61) | 149 | (2) |
| Other | 486 | (7) | 7 | — |
| Residential mortgage-backed securities | 1,631 | (26) | 158 | (3) |
| Other mortgage- and asset-backed securities | 1,087 | (10) | 118 | (3) |
| Equity securities | 22 | (4) | — | — |
| Total | \$ 18,281 | \$ (250) | \$ 493 | \$ (8) |

The primary objective of our investment portfolio is to enhance overall returns in an efficient manner while maintaining safety of principal, prudent levels of liquidity and acceptable levels of risk. Our investment policy limits interest-bearing security investments to certain types of debt and money market instruments issued by institutions with primarily investment-grade credit ratings, and it places restrictions on maturities and concentration by asset class and issuer.

We review our available-for-sale investments for other-than-temporary declines in fair value below our cost basis each quarter and whenever events or changes in circumstances indicate that the cost basis of an asset may not be recoverable. The evaluation is based on a number of factors, including the length of time and the extent to which the fair value has been below our cost basis and adverse conditions related specifically to the security, including any changes to the credit rating of the security, and the intent to sell, or whether we will more likely than not be required to sell, the security before recovery of its amortized cost basis. Our assessment of whether a security is other-than-temporarily impaired could change in the future based on new developments or changes in assumptions related to that particular security. As of December 31, 2017 and 2016, we believe the cost bases for our available-for-sale investments were recoverable in all material aspects.

10. Inventories

Inventories consisted of the following (in millions):

| | December 31, | |
|-------------------|--------------|----------|
| | 2017 | 2016 |
| Raw materials | \$ 232 | \$ 225 |
| Work in process | 1,668 | 1,608 |
| Finished goods | 934 | 912 |
| Total inventories | \$ 2,834 | \$ 2,745 |

11. Property, plant and equipment

Property, plant and equipment consisted of the following (dollar amounts in millions):

| | Useful life (in years) | December 31, | |
|--|------------------------|--------------|----------|
| | | 2017 | 2016 |
| Land | — | \$ 283 | \$ 295 |
| Buildings and improvements | 10-40 | 3,507 | 3,640 |
| Manufacturing equipment | 8-12 | 2,372 | 2,275 |
| Laboratory equipment | 8-12 | 1,179 | 1,092 |
| Other | 3-15 | 4,404 | 4,380 |
| Construction in progress | — | 834 | 745 |
| Property, plant and equipment, gross | | 12,579 | 12,427 |
| Less accumulated depreciation and amortization | | (7,590) | (7,466) |
| Property, plant and equipment, net | | \$ 4,989 | \$ 4,961 |

During the years ended December 31, 2017, 2016 and 2015, we recognized depreciation and amortization expense associated with our property, plant and equipment of \$604 million, \$619 million and \$727 million, respectively.

12. Goodwill and other intangible assets

Goodwill

Changes in the carrying amounts of goodwill were as follows (in millions):

| | Years ended December 31, | |
|--|--------------------------|-----------|
| | 2017 | 2016 |
| Beginning balance | \$ 14,751 | \$ 14,787 |
| Goodwill related to acquisitions of businesses | — | 2 |
| Currency translation adjustments | 10 | (38) |
| Ending balance | \$ 14,761 | \$ 14,751 |

Other intangible assets

Other intangible assets consisted of the following (in millions):

| | December 31, | | | | | |
|--|-----------------------|--------------------------|------------------------------|-----------------------|--------------------------|------------------------------|
| | 2017 | | | 2016 | | |
| | Gross carrying amount | Accumulated amortization | Other intangible assets, net | Gross carrying amount | Accumulated amortization | Other intangible assets, net |
| Finite-lived intangible assets: | | | | | | |
| Developed product technology rights | \$ 12,589 | \$ (6,796) | \$ 5,793 | \$ 12,534 | \$ (5,947) | \$ 6,587 |
| Licensing rights | 3,275 | (1,601) | 1,674 | 3,275 | (1,300) | 1,975 |
| Marketing-related rights | 1,319 | (920) | 399 | 1,333 | (793) | 540 |
| R&D technology rights | 1,161 | (804) | 357 | 1,122 | (704) | 418 |
| Total finite-lived intangible assets | 18,344 | (10,121) | 8,223 | 18,264 | (8,744) | 9,520 |
| Indefinite-lived intangible assets: | | | | | | |
| IPR&D | 386 | — | 386 | 759 | — | 759 |
| Total other intangible assets | \$ 18,730 | \$ (10,121) | \$ 8,609 | \$ 19,023 | \$ (8,744) | \$ 10,279 |

Developed product technology rights consist of rights related to marketed products acquired in business combinations. Licensing rights consist primarily of contractual rights acquired in business combinations to receive future milestones, royalties and profit sharing payments, capitalized payments to third parties for milestones related to regulatory approvals to commercialize

products and up-front payments associated with royalty obligations for marketed products. Marketing-related intangible assets consist primarily of rights related to the sale and distribution of marketed products. R&D technology rights consist of technology used in R&D with alternative future uses.

IPR&D consists of R&D projects acquired in a business combination that are not complete at the time of acquisition due to remaining technological risks and/or lack of receipt of required regulatory approvals. During 2017, we decided to discontinue the internal development of AMG 899 acquired in the acquisition of Dezima in 2015 (see Note 3, Business combinations), resulting in an impairment charge of \$400 million, which was recognized in Other operating expenses in the Consolidated Statement of Income and included in Other items, net in the Consolidated Statement of Cash Flows. See Note 16, Fair value measurement, for the impact on the related contingent consideration liabilities. As of December 31, 2017, IPR&D consists primarily of the oprozomib project, acquired in the acquisition of Onyx Pharmaceuticals, Inc. in 2013.

All IPR&D projects have major risks and uncertainties associated with the timely and successful completion of development and commercialization of product candidates, including our ability to confirm safety and efficacy based on data from clinical trials, our ability to obtain necessary regulatory approvals and our ability to successfully complete these tasks within budgeted costs. We are not permitted to market a human therapeutic without obtaining regulatory approvals, and such approvals require the completion of clinical trials that demonstrate that a product candidate is safe and effective. In addition, the availability and extent of coverage and reimbursement from third-party payers, including government healthcare programs and private insurance plans, as well as competitive product launches, impact the revenues a product can generate. Consequently, the eventual realized value, if any, of the acquired IPR&D projects may vary from their fair values. We review IPR&D projects for impairment annually, whenever events or changes in circumstances indicate that the carrying amount may not be recoverable and upon the establishment of technological feasibility or regulatory approval.

During the years ended December 31, 2017, 2016 and 2015, we recognized amortization expense associated with our finite-lived intangible assets, included primarily in Cost of sales in the Consolidated Statements of Income, of \$1.3 billion, \$1.5 billion and \$1.4 billion, respectively. The total estimated amortization expense for each of the next five years for our intangible assets is \$1.2 billion, \$1.1 billion, \$1.1 billion, \$0.9 billion and \$0.9 billion in 2018, 2019, 2020, 2021 and 2022, respectively.

13. Accrued liabilities

Accrued liabilities consisted of the following (in millions):

| | December 31, | |
|------------------------------------|-----------------|-----------------|
| | 2017 | 2016 |
| Sales deductions | \$ 2,247 | \$ 1,874 |
| Dividends payable | 953 | 849 |
| Employee compensation and benefits | 816 | 920 |
| Sales returns reserve | 455 | 437 |
| Other | 2,045 | 1,804 |
| Total accrued liabilities | <u>\$ 6,516</u> | <u>\$ 5,884</u> |

14. Financing arrangements

The carrying values and the fixed contractual coupon rates of our borrowings were as follows (in millions):

| | December 31, | |
|---|------------------|------------------|
| | 2017 | 2016 |
| Short-term loan | \$ — | \$ 605 |
| 2.125% notes due 2017 (2.125% 2017 Notes) | — | 1,250 |
| Floating Rate Notes due 2017 | — | 600 |
| 1.25% notes due 2017 (1.25% 2017 Notes) | — | 850 |
| 5.85% notes due 2017 (5.85% 2017 Notes) | — | 1,100 |
| 6.15% notes due 2018 (6.15% 2018 Notes) | 500 | 500 |
| 4.375% €550 million notes due 2018 (4.375% 2018 euro Notes) | 653 | 577 |
| 5.70% notes due 2019 (5.70% 2019 Notes) | 1,000 | 1,000 |
| 1.90% notes due 2019 (1.90% 2019 Notes) | 700 | — |
| Floating Rate Notes due 2019 | 550 | 250 |
| 2.20% notes due 2019 (2.20% 2019 Notes) | 1,400 | 1,400 |
| 2.125% €675 million notes due 2019 (2.125% 2019 euro Notes) | 810 | 710 |
| 4.50% notes due 2020 (4.50% 2020 Notes) | 300 | 300 |
| 2.125% notes due 2020 (2.125% 2020 Notes) | 750 | 750 |
| Floating Rate Notes due 2020 | 300 | — |
| 2.20% notes due 2020 (2.20% 2020 Notes) | 700 | — |
| 3.45% notes due 2020 (3.45% 2020 Notes) | 900 | 900 |
| 4.10% notes due 2021 (4.10% 2021 Notes) | 1,000 | 1,000 |
| 1.85% notes due 2021 (1.85% 2021 Notes) | 750 | 750 |
| 3.875% notes due 2021 (3.875% 2021 Notes) | 1,750 | 1,750 |
| 1.25% €1,250 million notes due 2022 (1.25% 2022 euro Notes) | 1,501 | 1,315 |
| 2.70% notes due 2022 (2.70% 2022 Notes) | 500 | 500 |
| 2.65% notes due 2022 (2.65% 2022 Notes) | 1,500 | — |
| 3.625% notes due 2022 (3.625% 2022 Notes) | 750 | 750 |
| 0.41% CHF700 million bonds due 2023 (0.41% 2023 Swiss franc Bonds) | 719 | 687 |
| 2.25% notes due 2023 (2.25% 2023 Notes) | 750 | 750 |
| 3.625% notes due 2024 (3.625% 2024 Notes) | 1,400 | 1,400 |
| 3.125% notes due 2025 (3.125% 2025 Notes) | 1,000 | 1,000 |
| 2.00% €750 million notes due 2026 (2.00% 2026 euro Notes) | 901 | 789 |
| 2.60% notes due 2026 (2.60% 2026 Notes) | 1,250 | 1,250 |
| 5.50% £475 million notes due 2026 (5.50% 2026 pound sterling Notes) | 642 | 586 |
| 3.20% notes due 2027 (3.20% 2027 Notes) | 1,000 | — |
| 4.00% £700 million notes due 2029 (4.00% 2029 pound sterling Notes) | 946 | 864 |
| 6.375% notes due 2037 (6.375% 2037 Notes) | 552 | 552 |
| 6.90% notes due 2038 (6.90% 2038 Notes) | 291 | 291 |
| 6.40% notes due 2039 (6.40% 2039 Notes) | 466 | 466 |
| 5.75% notes due 2040 (5.75% 2040 Notes) | 412 | 412 |
| 4.95% notes due 2041 (4.95% 2041 Notes) | 600 | 600 |
| 5.15% notes due 2041 (5.15% 2041 Notes) | 974 | 974 |
| 5.65% notes due 2042 (5.65% 2042 Notes) | 487 | 487 |
| 5.375% notes due 2043 (5.375% 2043 Notes) | 261 | 261 |
| 4.40% notes due 2045 (4.40% 2045 Notes) | 2,250 | 2,250 |
| 4.563% notes due 2048 (4.563% 2048 Notes) | 1,415 | 1,415 |
| 4.663% notes due 2051 (4.663% 2051 Notes) | 3,541 | 3,541 |
| Other notes due 2097 | 100 | 100 |
| Unamortized bond discounts, premiums and issuance costs, net | (929) | (936) |
| Total carrying value of debt | 35,342 | 34,596 |
| Less current portion | (1,152) | (4,403) |
| Total noncurrent debt | \$ 34,190 | \$ 30,193 |

There are no material differences between the effective interest rates and coupon rates of any of our borrowings, except for the 4.563% 2048 Notes and the 4.663% 2051 Notes, which have effective interest rates of 6.3% and 5.6%, respectively.

Under the terms of all of our outstanding notes (including debt exchange issuances discussed below), except our Other notes due 2097, in the event of a change-in-control triggering event, we may be required to purchase all or a portion of these debt securities at a price equal to 101% of the principal amount of the notes plus accrued and unpaid interest. In addition, all of our outstanding notes, except for our floating-rate notes, 0.41% 2023 Swiss franc Bonds and Other notes due 2097, may be redeemed at any time at our option, in whole or in part, at the principal amount of the notes being redeemed plus accrued and unpaid interest and a make-whole amount, which is defined by the terms of the notes. Certain of the redeemable notes do not require the payment of a make-whole amount if redeemed during a specified period of time immediately prior to the maturity of the notes. Such time periods range from one to six months prior to maturity.

Debt issuances

We issued debt and debt securities in various offerings during the years ended December 31, 2017, 2016 and 2015 including:

- In 2017, we issued \$4.5 billion principal amount of notes, consisting of the Floating-Rate Notes due 2019, the 1.90% 2019 Notes, the Floating-Rate Notes due 2020, the 2.20% 2020 Notes, the 2.65% 2022 Notes and the 3.20% 2027 Notes.
- In 2016, we issued \$6.7 billion principal amount of notes, consisting of the 1.85% 2021 Notes, 1.25% 2022 euro Notes, 0.41% 2023 Swiss franc Bonds, 2.25% 2023 Notes, 2.00% 2026 euro Notes, 2.60% 2026 Notes and \$1.0 billion of the 4.40% 2045 Notes. We received a \$79 million premium on the 4.40% 2045 Notes. In addition, we borrowed \$605 million under a short-term floating rate loan.
- In 2015, we issued \$3.5 billion aggregate principal amount of notes, consisting of the 2.125% 2020 Notes, the 2.70% 2022 Notes, the 3.125% 2025 Notes and \$1.25 billion of the 4.40% 2045 Notes.

As of December 31, 2017, we have a commercial paper program that allows us to issue up to \$2.5 billion of unsecured commercial paper to fund our working capital needs. During the year ended December 31, 2017, we issued and repaid an aggregate of \$12.3 billion commercial paper and had a maximum outstanding balance of \$1.5 billion under our commercial paper program. During the years ended December 31, 2016 and 2015, we did not issue any commercial paper. No commercial paper was outstanding as of December 31, 2017 or 2016.

Debt repayments

In 2017, we repaid the \$605 million short-term floating rate loan, the \$1.25 billion aggregate principal amount of the 2.125% 2017 Notes, the \$600 million aggregate principal amount of the Floating-Rate Notes due 2017, the \$850 million aggregate principal amount of the 1.25% 2017 Notes and the \$1.1 billion aggregate principal amount of the 5.85% 2017 Notes. In 2016, we repaid \$3.7 billion of debt, including the remaining \$1.975 billion of principal on a term loan credit facility, the \$750 million aggregate principal amount of the 2.30% 2016 Notes and the \$1.0 billion aggregate principal amount of the 2.50% 2016 Notes. In 2015, we repaid \$2.4 billion of principal on a term loan credit facility.

Debt exchange

During 2016, we completed a private offering to exchange portions of certain outstanding senior notes due 2037 through 2043 (collectively, the Old Notes), listed below, for new senior notes, consisting of principal amounts of \$1.4 billion of 4.563% 2048 Notes and \$3.5 billion of 4.663% 2051 Notes (collectively, the New Notes).

The following principal amounts of each series of Old Notes were validly tendered and subsequently canceled (in millions):

| | Principal amount exchanged |
|-------------------|---------------------------------------|
| 6.375% 2037 Notes | \$ 348 |
| 6.90% 2038 Notes | 209 |
| 6.40% 2039 Notes | 534 |
| 5.75% 2040 Notes | 288 |
| 5.15% 2041 Notes | 1,276 |
| 5.65% 2042 Notes | 763 |
| 5.375% 2043 Notes | 739 |

The New Notes bear lower fixed-coupon rates while requiring higher principal repayments on extended maturity dates, compared with the Old Notes that were exchanged. There were no other significant changes to the terms between the Old Notes and the New Notes. The exchange was accounted for as a debt modification, and there were no cash payments to or cash receipts from the note holders as a result of the exchange. Existing deferred financing costs associated with the Old Notes, as well as

discounts associated with the New Notes aggregating \$801 million, are being accreted over the term of the New Notes and recorded as Interest expense, net, in the Consolidated Statements of Income. Transaction costs of \$24 million incurred for the exchange were expensed immediately in Interest and other income, net, in the Consolidated Statement of Income.

Interest rate swaps

To achieve a desired mix of fixed-rate and floating-rate debt, we entered into interest rate swap contracts that effectively converted fixed-rate interest coupons for certain of our debt issuances to floating London Interbank Offered Rate (LIBOR)-based coupons over the lives of the respective notes. These interest rate swap contracts qualified and are designated as fair value hedges. The effective interest rates on notes for which we have entered into interest rate swap contracts and the related notional amounts of these contracts were as follows (dollar amounts in millions):

| Notes | Effective interest rate | December 31, | |
|------------------------|-------------------------|-----------------|----------|
| | | 2017 | 2016 |
| | | Notional amount | |
| 1.25% 2017 Notes | LIBOR + 0.4% | \$ — | \$ 850 |
| 2.20% 2019 Notes | LIBOR + 0.6% | 1,400 | 1,400 |
| 3.45% 2020 Notes | LIBOR + 1.1% | 900 | 900 |
| 4.10% 2021 Notes | LIBOR + 1.7% | 1,000 | 1,000 |
| 3.875% 2021 Notes | LIBOR + 2.0% | 1,750 | 1,750 |
| 3.625% 2022 Notes | LIBOR + 1.6% | 750 | 750 |
| 3.625% 2024 Notes | LIBOR + 1.4% | 1,400 | — |
| 3.125% 2025 Notes | LIBOR + 0.9% | 1,000 | — |
| 2.600% 2026 Notes | LIBOR + 0.3% | 1,250 | — |
| Total notional amounts | | \$ 9,450 | \$ 6,650 |

Cross-currency swaps

In order to hedge our exposure to foreign currency exchange rate risk associated with certain of our long-term notes denominated in foreign currencies, we entered into cross-currency swap contracts. The terms of these contracts effectively convert the interest payments and principal repayment on our 2.125% 2019 euro Notes, 1.25% 2022 euro Notes, 0.41% 2023 Swiss franc Bonds, 2.00% 2026 euro Notes, 5.50% 2026 pound sterling Notes and 4.00% 2029 pound sterling Notes from euros, pounds sterling and Swiss francs to U.S. dollars. These cross-currency swap contracts have been designated as cash flow hedges. For information regarding the terms of these contracts, see Note 17, Derivative instruments.

Shelf registration statements and other facilities

In 2014, we entered into a \$2.5 billion syndicated, unsecured, revolving credit agreement which is available for general corporate purposes or as a liquidity backstop to our commercial paper program. The commitments under the revolving credit agreement may be increased by up to \$500 million with the agreement of the banks. Each bank which is a party to the agreement has an initial commitment term of five years. We extended this term by one year during 2016 and may extend the term for an additional year with the agreement of the banks. Annual commitment fees for this agreement are 0.09% of the unused portion of the facility based on our current credit rating. Generally, we would be charged interest at LIBOR plus 1% for any amounts borrowed under this facility. As of December 31, 2017 and 2016, no amounts were outstanding under this facility.

In 2017, we filed a shelf registration statement with the SEC that allows us to issue unspecified amounts of debt securities; common stock; preferred stock; warrants to purchase debt securities, common stock, preferred stock or depositary shares; rights to purchase common stock or preferred stock; securities purchase contracts; securities purchase units; and depositary shares. Under this shelf registration statement, all of the securities available for issuance may be offered from time to time with terms to be determined at the time of issuance. This shelf registration statement expires in February 2020.

Certain of our financing arrangements contain non-financial covenants. In addition, our revolving credit agreement includes a financial covenant with respect to the level of our borrowings in relation to our equity, as defined. We were in compliance with all applicable covenants under these arrangements as of December 31, 2017.

Contractual maturities of debt obligations

The aggregate contractual maturities of all borrowings due subsequent to December 31, 2017, are as follows (in millions):

| Maturity date | Amount |
|---------------|-----------|
| 2018 | \$ 1,153 |
| 2019 | 4,460 |
| 2020 | 2,950 |
| 2021 | 3,500 |
| 2022 | 4,251 |
| Thereafter | 19,957 |
| Total | \$ 36,271 |

Interest costs

Interest costs are expensed as incurred, except to the extent such interest is related to construction in progress, in which case interest is capitalized. Interest expense, net, for the years ended December 31, 2017, 2016 and 2015, was \$1.3 billion, \$1.3 billion and \$1.1 billion, respectively. Interest costs capitalized for the years ended December 31, 2017, 2016 and 2015, were not material. Interest paid, including the ongoing impact and settlements of interest rate and cross-currency swap contracts, during the years ended December 31, 2017, 2016 and 2015, was \$1.3 billion, \$1.2 billion and \$1.0 billion, respectively.

15. Stockholders' equity

Stock repurchase program

Activity under our stock repurchase program, on a trade date basis, was as follows (in millions):

| | Years ended December 31, | | | | | |
|-------------------------|--------------------------|----------|--------|----------|--------|----------|
| | 2017 | | 2016 | | 2015 | |
| | Shares | Dollars | Shares | Dollars | Shares | Dollars |
| First quarter | 3.4 | \$ 555 | 4.7 | \$ 690 | 2.9 | \$ 451 |
| Second quarter | 6.2 | 1,006 | 3.9 | 591 | 3.3 | 515 |
| Third quarter | 4.4 | 769 | 4.4 | 747 | 4.6 | 703 |
| Fourth quarter | 4.5 | 796 | 6.7 | 999 | 1.2 | 184 |
| Total stock repurchases | 18.5 | \$ 3,126 | 19.7 | \$ 3,027 | 12.0 | \$ 1,853 |

As of December 31, 2017, \$4.4 billion remained available under our stock repurchase program. In January 2018, our Board of Directors authorized an additional \$10.0 billion under our stock repurchase program. On February 5, 2018, we announced a tender offer to purchase up to \$10.0 billion of our common stock at a price not greater than \$200 per share nor less than \$175 per share. The tender offer expires at 12:00 Midnight, New York City time, at the end of Monday, March 5, 2018, unless the offer is extended.

Dividends

Our Board of Directors declared quarterly dividends per share of \$1.15, \$1.00 and \$0.79 that were paid in each of the four quarters of 2017, 2016, and 2015, respectively.

Historically, each year we have declared dividends in December that were paid in the first quarter of the following fiscal year, and in March, July and October that were paid in the second, third and fourth quarters, respectively, of the same fiscal year.

Additionally, on December 12, 2017, the Board of Directors declared a quarterly cash dividend of \$1.32 per share of common stock, which will be paid on March 8, 2018, to all stockholders of record as of the close of business on February 15, 2018.

Accumulated other comprehensive income (loss)

The components of AOCI were as follows (in millions):

| | Foreign currency translation | Cash flow hedges | Available-for-sale securities | Other | AOCI |
|--|------------------------------------|---------------------|----------------------------------|---------|----------|
| Balance as of December 31, 2014 | \$ (264) | \$ 290 | \$ (19) | \$ (15) | \$ (8) |
| Foreign currency translation adjustments | (257) | — | — | — | (257) |
| Unrealized gains (losses) | — | 150 | (299) | 8 | (141) |
| Reclassification adjustments to income | — | (143) | 76 | — | (67) |
| Other | — | — | — | 1 | 1 |
| Income taxes | 10 | — | (18) | — | (8) |
| Balance as of December 31, 2015 | (511) | 297 | (260) | (6) | (480) |
| Foreign currency translation adjustments | (93) | — | — | — | (93) |
| Unrealized (losses) gains | — | (176) | 63 | — | (113) |
| Reclassification adjustments to income | — | 139 | 61 | — | 200 |
| Other | — | — | — | 1 | 1 |
| Income taxes | (6) | 22 | (2) | — | 14 |
| Balance as of December 31, 2016 | (610) | 282 | (138) | (5) | (471) |
| Foreign currency translation adjustments | 77 | — | — | — | 77 |
| Unrealized gains (losses) | — | 192 | (46) | — | 146 |
| Reclassification adjustments to income | — | (638) | 41 | — | (597) |
| Other | — | — | — | 5 | 5 |
| Income taxes | 4 | 158 | (1) | — | 161 |
| Balance as of December 31, 2017 | \$ (529) | \$ (6) | \$ (144) | \$ — | \$ (679) |

With respect to the table above, income tax expenses or benefits for unrealized gains and losses and the related reclassification adjustments to income for cash flow hedges were a \$68 million expense and \$226 million benefit in 2017, a \$68 million benefit and \$46 million expense in 2016 and a \$53 million expense and \$53 million benefit in 2015, respectively. Income tax expenses or benefits for unrealized gains and losses and the related reclassification adjustments to income for available-for-sale securities were a \$9 million expense and \$8 million benefit for 2017, a \$9 million benefit and \$11 million expense in 2016 and a \$0 million benefit and \$18 million expense in 2015, respectively.

The reclassifications out of AOCI to earnings were as follows (in millions):

| Components of AOCI | Years ended December 31, | | | Consolidated Statements of Income location |
|---|--------------------------|---------|---------|--|
| | 2017 | 2016 | 2015 | |
| Cash flow hedges: | | | | |
| Foreign currency contract gains | \$ 65 | \$ 308 | \$ 326 | Product sales |
| Cross-currency swap contract gains (losses) | 574 | (446) | (182) | Interest and other income, net |
| Forward interest rate contract losses | (1) | (1) | (1) | Interest expense, net |
| | 638 | (139) | 143 | Income before income taxes |
| | (226) | 46 | (53) | Provision for income taxes |
| | \$ 412 | \$ (93) | \$ 90 | Net income |
| Available-for-sale securities: | | | | |
| Net realized losses | \$ (41) | \$ (61) | \$ (76) | Interest and other income, net |
| | (8) | 11 | 18 | Provision for income taxes |
| | \$ (49) | \$ (50) | \$ (58) | Net income |

Other

In addition to common stock, our authorized capital includes 5 million shares of preferred stock, \$0.0001 par value. As of December 31, 2017 and 2016, no shares of preferred stock were issued or outstanding.

16. Fair value measurement

To estimate the fair value of our financial assets and liabilities, we use valuation approaches within a hierarchy that maximizes the use of observable inputs and minimizes the use of unobservable inputs by requiring that observable inputs be used when available. Observable inputs are inputs that market participants would use in pricing an asset or liability based on market data obtained from sources independent of the Company. Unobservable inputs are inputs that reflect the Company's assumptions about the inputs that market participants would use in pricing an asset or liability and are developed based on the best information available in the circumstances. The fair value hierarchy is divided into three levels based on the source of inputs as follows:

- Level 1 — Valuations based on unadjusted quoted prices in active markets for identical assets or liabilities that the Company has the ability to access
- Level 2 — Valuations for which all significant inputs are observable, either directly or indirectly, other than level 1 inputs
- Level 3 — Valuations based on inputs that are unobservable and significant to the overall fair value measurement

The availability of observable inputs can vary among the various types of financial assets and liabilities. To the extent that the valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. In certain cases, the inputs used for measuring fair value may fall into different levels of the fair value hierarchy. In such cases, for financial statement disclosure purposes, the level in the fair value hierarchy within which the fair value measurement is categorized is based on the lowest level of input used that is significant to the overall fair value measurement.

The fair values of each major class of the Company's financial assets and liabilities measured at fair value on a recurring basis were as follows (in millions):

| Fair value measurement as of December 31, 2017, using: | Quoted prices in active markets for identical assets (Level 1) | Significant other observable inputs (Level 2) | Significant unobservable inputs (Level 3) | Total |
|--|---|--|--|------------------|
| Assets: | | | | |
| Available-for-sale investments: | | | | |
| U.S. Treasury securities | \$ 8,242 | \$ — | \$ — | \$ 8,242 |
| Other government-related debt securities: | | | | |
| U.S. | — | 223 | — | 223 |
| Foreign and other | — | 2,422 | — | 2,422 |
| Corporate debt securities: | | | | |
| Financial | — | 10,072 | — | 10,072 |
| Industrial | — | 9,670 | — | 9,670 |
| Other | — | 1,390 | — | 1,390 |
| Residential mortgage-backed securities | — | 2,168 | — | 2,168 |
| Other mortgage- and asset-backed securities | — | 2,297 | — | 2,297 |
| Money market mutual funds | 3,245 | — | — | 3,245 |
| Other short-term interest-bearing securities | — | 1,440 | — | 1,440 |
| Equity securities | 149 | — | — | 149 |
| Derivatives: | | | | |
| Foreign currency contracts | — | 6 | — | 6 |
| Cross-currency swap contracts | — | 270 | — | 270 |
| Interest rate swap contracts | — | 10 | — | 10 |
| Total assets | <u>\$ 11,636</u> | <u>\$ 29,968</u> | <u>\$ —</u> | <u>\$ 41,604</u> |
| Liabilities: | | | | |
| Derivatives: | | | | |
| Foreign currency contracts | \$ — | \$ 204 | \$ — | \$ 204 |
| Cross-currency swap contracts | — | 220 | — | 220 |
| Interest rate swap contracts | — | 61 | — | 61 |
| Contingent consideration obligations in connection with business combinations | — | — | 69 | 69 |
| Total liabilities | <u>\$ —</u> | <u>\$ 485</u> | <u>\$ 69</u> | <u>\$ 554</u> |

| Fair value measurement as of December 31, 2016, using: | Quoted prices in active markets for identical assets (Level 1) | Significant other observable inputs (Level 2) | Significant unobservable inputs (Level 3) | Total |
|--|---|--|--|------------------|
| Assets: | | | | |
| Available-for-sale investments: | | | | |
| U.S. Treasury securities | \$ 6,614 | \$ — | \$ — | \$ 6,614 |
| Other government-related debt securities: | | | | |
| U.S. | — | 299 | — | 299 |
| Foreign and other | — | 1,759 | — | 1,759 |
| Corporate debt securities: | | | | |
| Financial | — | 8,460 | — | 8,460 |
| Industrial | — | 8,789 | — | 8,789 |
| Other | — | 1,077 | — | 1,077 |
| Residential mortgage-backed securities | — | 1,940 | — | 1,940 |
| Other mortgage- and asset-backed securities | — | 1,719 | — | 1,719 |
| Money market mutual funds | 2,782 | — | — | 2,782 |
| Other short-term interest-bearing securities | — | 4,188 | — | 4,188 |
| Equity securities | 154 | — | — | 154 |
| Derivatives: | | | | |
| Foreign currency contracts | — | 203 | — | 203 |
| Interest rate swap contracts | — | 41 | — | 41 |
| Total assets | <u>\$ 9,550</u> | <u>\$ 28,475</u> | <u>\$ —</u> | <u>\$ 38,025</u> |
| Liabilities: | | | | |
| Derivatives: | | | | |
| Foreign currency contracts | \$ — | \$ 4 | \$ — | \$ 4 |
| Cross-currency swap contracts | — | 523 | — | 523 |
| Interest rate swap contracts | — | 7 | — | 7 |
| Contingent consideration obligations in connection with business combinations | — | — | 179 | 179 |
| Total liabilities | <u>\$ —</u> | <u>\$ 534</u> | <u>\$ 179</u> | <u>\$ 713</u> |

Excluded from the tables above are limited partnership investments of \$213 million and \$158 million as of December 31, 2017 and 2016, respectively, which are included in Other assets in the Consolidated Balance Sheets. These investments are measured using net asset values of the underlying investments as a practical expedient. These investments are typically only redeemable through distributions upon liquidation of the underlying assets. As of December 31, 2017, unfunded additional commitments to be made over the next several years for these investments were approximately \$100 million.

The fair values of our U.S. Treasury securities, money market mutual funds and equity securities are based on quoted market prices in active markets with no valuation adjustment.

Most of our other government-related and corporate debt securities are investment grade and have maturity dates of five years or less from the balance sheet date. Our other government-related debt securities portfolio is composed of securities with weighted-average credit ratings of BBB+ or equivalent by Standard & Poor's Financial Services LLC (S&P), and A- or equivalent by Moody's Investors Service, Inc. (Moody's) or Fitch Ratings Inc. (Fitch); and our corporate debt securities portfolio has a weighted-average credit rating of A- or equivalent by Fitch, and BBB+ or equivalent by S&P or Moody's. We estimate the fair values of these securities by taking into consideration valuations obtained from third-party pricing services. The pricing services utilize industry standard valuation models, including both income- and market-based approaches, for which all significant inputs are observable, either directly or indirectly, to estimate fair value. The inputs include reported trades of and broker-dealer quotes on the same or similar securities; issuer credit spreads; benchmark securities; and other observable inputs.

Our residential mortgage-, other mortgage- and asset-backed securities portfolio is composed entirely of senior tranches, with credit ratings of AAA by S&P, Moody's or Fitch. We estimate the fair values of these securities by taking into consideration valuations obtained from third-party pricing services. The pricing services utilize industry standard valuation models, including both income- and market-based approaches, for which all significant inputs are observable, either directly or indirectly, to estimate fair value. The inputs include reported trades of and broker/dealer quotes on the same or similar securities; issuer credit spreads; benchmark securities; prepayment/default projections based on historical data; and other observable inputs.

We value our other short-term interest-bearing securities at amortized cost, which approximates fair value given their near-term maturity dates.

All of our foreign currency forward and option derivatives contracts have maturities of three years or less, and all are with counterparties that have minimum credit ratings of A- or equivalent by S&P, Moody's or Fitch. We estimate the fair values of these contracts by taking into consideration valuations obtained from a third-party valuation service that utilizes an income-based industry standard valuation model for which all significant inputs are observable, either directly or indirectly. These inputs include foreign currency exchange rates, LIBOR, swap rates and obligor credit default swap rates. In addition, inputs for our foreign currency option contracts include implied volatility measures. These inputs, where applicable, are at commonly quoted intervals. See Note 17, Derivative instruments.

Our cross-currency swap contracts are with counterparties that have minimum credit ratings of A- or equivalent by S&P, Moody's or Fitch. We estimate the fair values of these contracts by taking into consideration valuations obtained from a third-party valuation service that utilizes an income-based industry standard valuation model for which all significant inputs are observable either directly or indirectly. These inputs include foreign currency exchange rates, LIBOR, swap rates, obligor credit default swap rates and cross-currency basis swap spreads. See Note 17, Derivative instruments.

Our interest rate swap contracts are with counterparties that have minimum credit ratings of A- or equivalent by S&P, Moody's or Fitch. We estimate the fair values of these contracts by using an income-based industry standard valuation model for which all significant inputs were observable either directly or indirectly. These inputs include LIBOR, swap rates and obligor credit default swap rates.

Contingent consideration obligations

As a result of our business acquisitions, we incurred contingent consideration obligations, as discussed below. The contingent consideration obligations are recorded at their fair values by using probability-adjusted discounted cash flows, and we revalue these obligations each reporting period until the related contingencies have been resolved. The fair value measurements of these obligations are based on significant unobservable inputs related to product candidates acquired in business combinations and are reviewed quarterly by management in our R&D and commercial sales organizations. These inputs include, as applicable, estimated probabilities and timing of achieving specified regulatory and commercial milestones and estimated annual sales. Significant changes that increase or decrease the probabilities of achieving the related regulatory and commercial events, that shorten or lengthen the time required to achieve such events, or that increase or decrease estimated annual sales would result in corresponding increases or decreases in the fair values of the obligations, as applicable. Changes in the fair values of contingent consideration obligations are recognized in Other operating expenses in the Consolidated Statements of Income.

Changes in the carrying amounts of contingent consideration obligations were as follows (in millions):

| | Years ended December 31, | | |
|---|--------------------------|---------------|---------------|
| | 2017 | 2016 | 2015 |
| Beginning balance | \$ 179 | \$ 188 | \$ 215 |
| Addition from Dezima acquisition | — | — | 110 |
| Payment to former BioVex Group, Inc. shareholders | — | — | (125) |
| Net changes in valuation | (110) | (9) | (12) |
| Ending balance | <u>\$ 69</u> | <u>\$ 179</u> | <u>\$ 188</u> |

As a result of our acquisition of Dezima in 2015, we are obligated to pay its former shareholders up to \$1.25 billion of additional consideration contingent upon achieving certain development and sales-related milestones and low single-digit royalties on net product sales above a certain threshold for AMG 899. The fair values of the contingent consideration obligations had an aggregate value of \$110 million at acquisition. During 2017, we decided to discontinue the internal development of AMG 899, and accordingly, reduced to zero these contingent consideration liabilities. The remeasurement of these liabilities was included in

Other items, net in the Consolidated Statement of Cash Flows during the year ended December 31, 2017. See Note 12, Goodwill and other intangible assets, for the impact on the related IPR&D asset.

As a result of our acquisition of BioVex Group Inc. in 2011, we are obligated to pay its former shareholders additional consideration contingent upon achieving separate regulatory and sales-related milestones with regard to IMLYGIC[®], including a \$125 million milestone payment made in 2015 as a result of the first commercial sale of this product in the United States following marketing approval. The remaining milestone payments of up to \$325 million will become payable if certain sales thresholds related to IMLYGIC[®] are achieved within specified periods of time.

During the years ended December 31, 2017 and 2016, there were no transfers of assets or liabilities between fair value measurement levels, and, except with respect to an IPR&D asset discussed in Note 12, Goodwill and other intangible assets, there were no material remeasurements to the fair values of assets and liabilities that are not measured at fair value on a recurring basis.

Summary of the fair values of other financial instruments

Cash equivalents

The fair values of cash equivalents approximate their carrying values due to the short-term nature of such financial instruments.

Borrowings

We estimated the fair value of our borrowings (Level 2) by taking into consideration indicative prices obtained from a third-party financial institution that utilizes industry standard valuation models, including both income- and market-based approaches, for which all significant inputs are observable either directly or indirectly. These inputs include reported trades of and broker-dealer quotes on the same or similar securities; credit spreads; benchmark yields; foreign currency exchange rates, as applicable; and other observable inputs. As of December 31, 2017 and 2016, the aggregate fair values of our borrowings were \$38.6 billion and \$36.5 billion, respectively, and the carrying values were \$35.3 billion and \$34.6 billion, respectively.

17. Derivative instruments

The Company is exposed to foreign currency exchange rate and interest rate risks related to its business operations. To reduce our risks related to such exposures, we utilize or have utilized certain derivative instruments, including foreign currency forward, foreign currency option, cross-currency swap, forward interest rate and interest rate swap contracts. We do not use derivatives for speculative trading purposes.

Cash flow hedges

We are exposed to possible changes in the values of certain anticipated foreign currency cash flows resulting from changes in foreign currency exchange rates, associated primarily with our euro-denominated international product sales. Increases and decreases in the cash flows associated with our international product sales due to movements in foreign currency exchange rates are offset partially by corresponding increases and decreases in the cash flows from our international operating expenses resulting from these foreign currency exchange rate movements. To further reduce our exposure to foreign currency exchange rate fluctuations on our international product sales, we enter into foreign currency forward and option contracts to hedge a portion of our projected international product sales primarily over a three-year time horizon, with, at any given point in time, a higher percentage of nearer-term projected product sales being hedged than in successive periods.

As of December 31, 2017, 2016 and 2015, we had open foreign currency forward contracts with notional amounts of \$4.6 billion, \$3.4 billion and \$3.3 billion, respectively, and open foreign currency option contracts with notional amounts of \$74 million, \$608 million and \$225 million, respectively. We have designated these foreign currency forward and foreign currency option contracts, which are primarily euro based, as cash flow hedges; and accordingly, we report the effective portions of the unrealized gains and losses on these contracts in AOCI in the Consolidated Balance Sheets, and we reclassify them to earnings in the same periods during which the hedged transactions affect earnings.

To manage counterparty risk resulting from favorable movements in U.S. dollar/foreign currency exchange rates, we effectively terminated outstanding foreign currency forward and option contracts with a notional amount of \$2.3 billion during the year ended December 31, 2015. We received \$340 million from the counterparties, which was included in Net cash provided by operating activities in the Consolidated Statement of Cash Flows. This amount was recorded in AOCI and is being recognized in Product sales in the Consolidated Statements of Income when the related international product sales affect earnings. In addition, during the year ended December 31, 2015, we entered into new foreign currency forward and option contracts that hedge these forecasted international product sales.

To hedge our exposure to foreign currency exchange rate risk associated with certain of our long-term debt denominated in foreign currencies, we enter into cross-currency swap contracts. Under the terms of such contracts, we paid euros, pounds sterling and Swiss francs and received U.S. dollars for the notional amounts at the inception of the contracts; and based on these notional amounts, we exchange interest payments at fixed rates over the lives of the contracts by paying U.S. dollars and receiving euros, pounds sterling and Swiss francs. In addition, we will pay U.S. dollars to and receive euros, pounds sterling and Swiss francs from the counterparties at the maturities of the contracts for these same notional amounts. The terms of these contracts correspond to the related hedged debt, effectively converting the interest payments and principal repayment on the debt from euros, pounds sterling and Swiss francs to U.S. dollars. We have designated these cross-currency swap contracts as cash flow hedges, and accordingly, the effective portions of the unrealized gains and losses on these contracts are reported in AOCI in the Consolidated Balance Sheets and reclassified to earnings in the same periods during which the hedged debt affects earnings.

The notional amounts and interest rates of our cross-currency swaps as of December 31, 2017, were as follows (notional amounts in millions):

| Hedged notes | Foreign currency | | U.S. dollars | |
|---------------------------------|------------------|---------------|-----------------|---------------|
| | Notional amount | Interest rate | Notional amount | Interest rate |
| 2.125% 2019 euro Notes | € 675 | 2.125% | \$ 864 | 2.6% |
| 1.25% 2022 euro Notes | € 1,250 | 1.25% | \$ 1,388 | 3.2% |
| 0.41 % 2023 Swiss franc Bonds | CHF 700 | 0.41% | \$ 704 | 3.4% |
| 2.00% 2026 euro Notes | € 750 | 2.00% | \$ 833 | 3.9% |
| 5.50% 2026 pound sterling Notes | £ 475 | 5.50% | \$ 747 | 6.0% |
| 4.00% 2029 pound sterling Notes | £ 700 | 4.00% | \$ 1,111 | 4.5% |

In connection with the anticipated issuance of long-term fixed-rate debt, we occasionally enter into forward interest rate contracts in order to hedge the variability in cash flows due to changes in the applicable Treasury rate between the time we enter into these contracts and the time the related debt is issued. Gains and losses on forward interest rate contracts, which are designated as cash flow hedges, are recognized in AOCI in the Consolidated Balance Sheets and are amortized into earnings over the lives of the associated debt issuances.

The effective portions of unrealized gains and losses recognized in AOCI for our derivative instruments designated as cash flow hedges were as follows (in millions):

| Derivatives in cash flow hedging relationships | Years ended December 31, | | |
|--|--------------------------|----------|--------|
| | 2017 | 2016 | 2015 |
| Foreign currency contracts | \$ (402) | \$ 115 | \$ 425 |
| Cross-currency swap contracts | 581 | (281) | (275) |
| Forward interest rate contracts | 13 | (10) | — |
| Total unrealized gains (losses) | \$ 192 | \$ (176) | \$ 150 |

The locations in the Consolidated Statements of Income and the effective portions of the gains and losses reclassified out of AOCI and into earnings for our derivative instruments designated as cash flow hedges were as follows (in millions):

| Derivatives in cash flow hedging relationships | Consolidated Statements of Income location | Years ended December 31, | | |
|--|--|--------------------------|----------|--------|
| | | 2017 | 2016 | 2015 |
| Foreign currency contracts | Product sales | \$ 65 | \$ 308 | \$ 326 |
| Cross-currency swap contracts | Interest and other income, net | 574 | (446) | (182) |
| Forward interest rate contracts | Interest expense, net | (1) | (1) | (1) |
| Total realized gains (losses) | | \$ 638 | \$ (139) | \$ 143 |

No portions of our cash flow hedge contracts are excluded from the assessment of hedge effectiveness, and the gains and losses of the ineffective portions of these hedging instruments were not material for the years ended December 31, 2017, 2016

and 2015. As of December 31, 2017, the amounts expected to be reclassified out of AOCI and into earnings over the next 12 months are \$175 million of net losses on our foreign currency and cross-currency swap contracts. The net amount expected to be reclassified out of AOCI and into earnings over the next 12 months on our forward interest rate contracts is not material.

Fair value hedges

To achieve the desired mix of fixed and floating interest rates on our long-term debt, we entered into interest rate swap contracts that qualified and are designated as fair value hedges. The terms of these interest rate swap contracts correspond to the related hedged debt instruments and effectively convert a fixed interest rate coupon to a floating LIBOR-based coupon over the lives of the respective notes. As of December 31, 2017 and 2016, we had interest rate swap agreements with aggregate notional amounts of \$9.45 billion and \$6.65 billion, respectively, that hedge certain of our long-term debt issuances. See Note 14, Financing arrangements—Interest rate swaps.

For derivative instruments that qualify for and are designated as fair value hedges, we recognize in earnings the unrealized gain or loss on the derivative resulting from the change in fair value during the period as well as the offsetting unrealized loss or gain of the hedged item resulting from the change in fair value during the period attributable to the hedged risk. During the years ended December 31, 2017 and 2016, we included unrealized losses on interest rate swap agreements of \$85 million and \$34 million, respectively, in the same line item, Interest expense, net, in the Consolidated Statements of Income, as the offsetting unrealized gains of \$85 million and \$34 million, respectively, on the related hedged debt. During the year ended December 31, 2015, we included unrealized gains on interest rate swap agreements of \$48 million in the same line item, Interest expense, net, in the Consolidated Statement of Income, as the offsetting unrealized losses of \$48 million on the related hedged debt.

Derivatives not designated as hedges

To reduce our exposure to foreign currency fluctuations of certain assets and liabilities denominated in foreign currencies, we enter into foreign currency forward contracts that are not designated as hedging transactions. These exposures are hedged on a month-to-month basis. As of December 31, 2017, 2016 and 2015, the total notional amounts of these foreign currency forward contracts were \$757 million, \$666 million and \$911 million, respectively.

The location in the Consolidated Statements of Income and the amount of gains (losses) recognized in earnings for our derivative instruments not designated as hedging instruments were as follows (in millions):

| Derivatives not designated as hedging instruments | Consolidated Statements of Income location | Years ended December 31, | | |
|---|--|--------------------------|---------|---------|
| | | 2017 | 2016 | 2015 |
| Foreign currency contracts | Interest and other income, net | \$ 24 | \$ (56) | \$ (16) |

The fair values of derivatives included on the Consolidated Balance Sheets were as follows (in millions):

| December 31, 2017 | Derivative assets | | Derivative liabilities | |
|---|--|---------------|---|---------------|
| | Consolidated Balance Sheet location | Fair value | Consolidated Balance Sheet location | Fair value |
| Derivatives designated as hedging instruments: | | | | |
| Foreign currency contracts | Other current assets/ Other noncurrent assets | \$ 6 | Accrued liabilities/ Other noncurrent liabilities | \$ 204 |
| Cross-currency swap contracts | Other current assets/ Other noncurrent assets | 270 | Accrued liabilities/ Other noncurrent liabilities | 220 |
| Interest rate swap contracts | Other current assets/ Other noncurrent assets | 10 | Accrued liabilities/ Other noncurrent liabilities | 61 |
| Total derivatives designated as hedging instruments | | <u>\$ 286</u> | | <u>\$ 485</u> |

| December 31, 2016 | Derivative assets | | Derivative liabilities | |
|---|--|---------------|---|---------------|
| | Consolidated Balance Sheet location | Fair value | Consolidated Balance Sheet location | Fair value |
| Derivatives designated as hedging instruments: | | | | |
| Foreign currency contracts | Other current assets/ Other noncurrent assets | \$ 203 | Accrued liabilities/ Other noncurrent liabilities | \$ 4 |
| Cross-currency swap contracts | Other current assets/ Other noncurrent assets | — | Accrued liabilities/ Other noncurrent liabilities | 523 |
| Interest rate swap contracts | Other current assets/ Other noncurrent assets | 41 | Accrued liabilities/ Other noncurrent liabilities | 7 |
| Total derivatives designated as hedging instruments | | <u>\$ 244</u> | | <u>\$ 534</u> |

Our derivative contracts that were in liability positions as of December 31, 2017, contain certain credit-risk-related contingent provisions that would be triggered if: (i) we were to undergo a change in control and (ii) our or the surviving entity's creditworthiness deteriorates, which is generally defined as having either a credit rating that is below investment grade or a materially weaker creditworthiness after the change in control. If these events were to occur, the counterparties would have the right, but not the obligation, to close the contracts under early-termination provisions. In such circumstances, the counterparties could request immediate settlement of these contracts for amounts that approximate the then current fair values of the contracts. In addition, our derivative contracts are not subject to any type of master netting arrangement, and amounts due either to or from a counterparty under the contracts may only be offset against other amounts due either to or from the same counterparty only if an event of default or termination, as defined, were to occur.

The cash flow effects of our derivative contracts are included within Net cash provided by operating activities in the Consolidated Statements of Cash Flows.

18. Contingencies and commitments

Contingencies

In the ordinary course of business, we are involved in various legal proceedings, government investigations and other matters that are complex in nature and have outcomes that are difficult to predict. See Part I, Item 1A. Risk Factors—*Our business may be affected by litigation and government investigations.* We describe our legal proceedings and other matters that are significant or that we believe could become significant in this footnote.

We record accruals for loss contingencies to the extent that we conclude it is probable that a liability has been incurred and the amount of the related loss can be reasonably estimated. We evaluate, on a quarterly basis, developments in legal proceedings and other matters that could cause an increase or decrease in the amount of the liability that has been accrued previously.

Our legal proceedings involve various aspects of our business and a variety of claims-including but not limited to patent validity and infringement, regulatory standards, marketing, and other corporate and commercial matters-some of which present novel factual allegations and/or unique legal theories. In each of the matters described in this filing, plaintiffs seek an award of a not-yet-quantified amount of damages or an amount that is not material. In addition, a number of the matters pending against us are at very early stages of the legal process, which in complex proceedings of the sort we face often extend for several years. As a result, none of the matters pending against us described in this filing have progressed sufficiently through discovery and/or the development of important factual information and legal issues to enable us to estimate a range of possible loss, if any, or such amounts are not material. While it is not possible to accurately predict or determine the eventual outcomes of these matters, an adverse determination in one or more of these matters currently pending could have a material adverse effect on our consolidated results of operations, financial position or cash flows.

Certain of our legal proceedings and other matters are discussed below:

PCSK9 Antibody Patent Litigation

U.S. Patent Litigation—Sanofi/Regeneron

On October 17, 2014, Amgen initiated a series of lawsuits in the U.S. District Court for the District of Delaware (the Delaware District Court) against Sanofi, Aventisub LLC, formerly doing business as Aventis Pharmaceuticals Inc., and Regeneron Pharmaceuticals, Inc. (Regeneron) for patent infringement. On December 15, 2014, these lawsuits were consolidated by the Delaware District Court into a single case against Sanofi, Sanofi-Aventis U.S. LLC and Aventisub LLC, formerly doing business as Aventis Pharmaceuticals Inc. (collectively, Sanofi) and Regeneron, addressing seven of our patents: U.S. Patent Nos. 8,563,698; 8,829,165 (the '165 Patent); 8,859,741 (the '741 Patent); 8,871,913; 8,871,914; 8,883,983; and 8,889,834. These patents describe and claim monoclonal antibodies to proprotein convertase subtilisin/kexin type 9 (PCSK9). By its complaints, Amgen seeks an injunction to prevent the infringing manufacture, use and sale of Sanofi and Regeneron's alirocumab, a monoclonal antibody targeting PCSK9. On January 29, 2016, the Delaware District Court granted Amgen's motion to amend the complaint to add Amgen Manufacturing, Limited (AML) and Amgen USA Inc. as plaintiffs and to add the allegation that defendants' infringement of Amgen's patents is willful.

On February 22, 2016, the Delaware District Court entered a stipulated order finding alirocumab and the drug product containing it, PRALUENT[®], infringe certain of Amgen's patents, including claims 2, 7, 9, 15, 19 and 29 of the '165 Patent and claim 7 of the '741 Patent. On March 18, 2016, the Delaware District Court entered judgment in favor of Amgen following a five-day jury trial and a unanimous jury verdict that these patent claims from the '165 Patent and the '741 Patent are all valid. On January 3, 2017, the Delaware District Court denied Sanofi and Regeneron's post-trial motions seeking a new trial and for judgment as a matter of law, and on January 5, 2017, granted Amgen's motion for a permanent injunction prohibiting the infringing manufacture, use, sale, offer for sale or import of alirocumab in the United States.

On January 12, 2017, Sanofi and Regeneron filed an appeal of the judgment and the permanent injunction to the U.S. Court of Appeals for the Federal Circuit (the Federal Circuit Court). Following a motion by Sanofi and Regeneron, the Federal Circuit Court ordered an expedited briefing schedule for the appeal and, on February 8, 2017, entered a stay of the permanent injunction during the pendency of the appeal. On October 5, 2017, the Federal Circuit Court reversed-in-part the judgment of the Delaware District Court and remanded for a new trial two of defendants' patent validity defenses (failure to meet the law's requirements for patentability of written description and enablement of the claimed inventions), and affirmed the Delaware District Court's judgment of infringement of claims 2, 7, 9, 15, 19 and 29 of the '165 Patent and claim 7 of the '741 Patent and patent validity on the defendants' third patent validity defense (finding that the claimed inventions were not obvious to a person of ordinary skill in the field of the patents). The Federal Circuit Court also vacated and remanded for further consideration by the Delaware District Court the permanent injunction. On December 6, 2017, Amgen petitioned the Federal Circuit Court for rehearing *en banc*.

Patent Disputes in the European Region

On February 24, 2016, the European Patent Office (EPO) granted European Patent No. 2,215,124 (EP 2,215,124) to Amgen. This patent describes and claims monoclonal antibodies to PCSK9 and methods of treatment. On February 24, 2016, Sanofi filed an opposition to the patent in the EPO seeking to invalidate it. In November 2016, Sanofi-Aventis Deutschland GmbH, Sanofi-Aventis Groupe S.A. and Sanofi Winthrop Industrie S.A. filed a joint opposition against Amgen's patent, and each of Eli Lilly and Company, Regeneron, and Strawman Ltd. also filed oppositions to Amgen's patent. Amgen filed its response on May 2, 2017. The EPO has scheduled oral proceedings to begin on November 28, 2018.

We are also involved in and expect future involvement in additional disputes regarding our PCSK9 patents in other jurisdictions and regions, including matters filed against us and that we have filed in the United Kingdom, Germany and France.

Sensipar[®] (cinacalcet) Litigation

Sensipar[®] Abbreviated New Drug Application (ANDA) Patent Litigation

Beginning in September 2016, Amgen filed 14 separate lawsuits in the Delaware District Court for infringement of our U.S. Patent No. 9,375,405 (the '405 Patent) against: (1) Aurobindo Pharma Ltd. and Aurobindo Pharma USA, Inc., (2) Micro Labs Ltd. and Micro Labs USA, Inc. (collectively, Micro Labs), (3) Watson Laboratories, Inc., Actavis, Inc. and Actavis Pharma, Inc., (4) Cipla Limited and Cipla USA, Inc. (collectively, Cipla), (5) Strides Pharma Global PTE Limited and Strides Pharma, Inc., (6) Sun Pharma Global FZE and Sun Pharmaceutical Industries, Inc. (collectively, Sun), (7) Dr. Reddy's Laboratories, Ltd. and Dr. Reddy's Laboratories, Inc. (collectively, Dr. Reddy's), (8) Ajanta Pharma Limited and Ajanta Pharma USA, Inc. (collectively, Ajanta), (9) Amneal Pharmaceuticals LLC, Amneal Pharmaceuticals of New York, LLC, and Amneal Pharmaceuticals Co. India Private Limited, (10) Apotex Inc. and Apotex Corp. (collectively, Apotex), (11) Hetero USA Inc., Hetero Labs Ltd. and Hetero Labs Ltd. Unit V (collectively, Hetero), (12) Breckenridge Pharmaceutical, Inc. (Breckenridge), (13) Mylan Pharmaceuticals Inc. and Mylan Inc., and (14) Zydus Pharmaceuticals (USA) Inc. and Cadila Healthcare Ltd. (collectively, Zydus). In November 2016, Actavis, Inc. was dismissed from the applicable lawsuit by joint stipulation of the parties. The Delaware District Court consolidated these 14 lawsuits into a single case, *Amgen Inc. v. Aurobindo Pharma Ltd. et al.*, which is scheduled for trial on March 5, 2018. The '405 Patent is entitled "Rapid Dissolution Formulation of a Calcium Receptor-Active Compound" and expires in 2026. Amgen seeks an order of the Delaware District Court making any U.S. Food and Drug Administration (FDA) approval of the defendants' generic versions of Sensipar[®] effective no earlier than the expiration of the '405 Patent. All defendants have responded to the complaint denying infringement and seeking judgment that the '405 Patent is invalid and/or not infringed. Amgen filed, and the Delaware District Court signed, stipulated dismissals of the lawsuit against defendants Apotex on September 11, 2017, and Micro Labs on September 20, 2017. The Delaware District Court signed consent judgments filed by Amgen and Breckenridge on September 21, 2017, by Amgen and Sun on November 2, 2017, by Amgen and Hetero on November 2, 2017, and by Amgen and Ajanta on November 9, 2017, each stipulating to entry of judgment of infringement and validity of the '405 Patent and an injunction prohibiting the manufacture, use, sale, offer to sell, importation of, or distribution into the United States of the respective defendant's cinacalcet product during the term of the '405 Patent unless specifically authorized pursuant to the confidential settlement agreement.

In June 2017, Amgen filed four additional lawsuits in the Delaware District Court for infringement of the '405 Patent against: (1) Piramal Healthcare UK Limited (Piramal), (2) Alkem Laboratories Ltd. (Alkem), (3) Lupin Ltd. and Lupin Pharmaceuticals, Inc. (collectively, Lupin), and (4) Macleods Pharmaceuticals Ltd. and Macleods Pharma USA, Inc. (collectively, Macleods). In each lawsuit, all defendants have responded to the complaint denying infringement and seeking a declaration of non-infringement and invalidity of the '405 Patent. Macleods' response also included a counterclaim alleging sham litigation in violation of the Sherman Antitrust Act, which Amgen has denied. On August 15, 2017, the Delaware District Court consolidated the lawsuit filed against Piramal into the existing consolidated case. The Delaware District Court consolidated the lawsuits filed against Alkem, Lupin and Macleods into a separate single case, *Amgen Inc. v. Alkem et al.*, on December 13, 2017, stayed Macleods' Sherman Antitrust counterclaim pending resolution of the patent claims, and has scheduled trial on the patent claims for April 29, 2019.

In December 2017, Amgen filed four additional lawsuits in the Delaware District Court for infringement of the '405 Patent against (1) Watson Laboratories, Inc. and Actavis Pharma Inc., (2) Teva Pharmaceuticals, USA, Inc., (3) Barr Laboratories, Inc., and (4) Torrent Pharmaceuticals Ltd.

Sensipar[®] Pediatric Exclusivity Litigation

On May 25, 2017, Amgen filed a lawsuit in the U.S. District Court for the District of Columbia (the D.C. District Court) seeking effectively to reverse the FDA's May 22, 2017 rejection of Amgen's request for pediatric exclusivity for cinacalcet hydrochloride (Sensipar[®]/Mimpara[®]). Four companies seeking to market generic versions of Sensipar[®] were granted leave to intervene, but all but Amneal Pharmaceuticals LLC have subsequently withdrawn from the case. On January 26, 2018, the D.C. District Court granted in part and denied in part the summary judgment motions filed separately by each of the parties and remanded the case to the FDA for the limited purpose of the FDA addressing whether the FDA's denial of pediatric exclusivity in the case is inconsistent with a prior FDA pediatric exclusivity decision on a different drug. The FDA has responded that its denial of pediatric exclusivity for cinacalcet hydrochloride was appropriate and not inconsistent with its prior decisions. The parties await the court's ruling on the remaining portions of their summary judgment motions.

KYPROLIS[®] (carfilzomib) ANDA Patent Litigation

Beginning in October 2016, our subsidiary Onyx Therapeutics, Inc. (Onyx Therapeutics), filed four separate lawsuits in the Delaware District Court against: Cipla; Sagent Pharmaceuticals, Inc.; Breckenridge; and Fresenius Kabi, USA LLC, Fresenius

Kabi USA, Inc., Fresenius Pharmaceuticals Holding, Inc., and Fresenius Kabi Oncology Limited; each for infringing U.S. Patent Nos. 7,232,818 (the '818 Patent); 7,417,042 (the '042 Patent); 7,491,704 (the '704 Patent); 7,737,112 (the '112 Patent); 8,129,346 (the '346 Patent); 8,207,125 (the '125 Patent); 8,207,126 (the '126 Patent); 8,207,127 (the '127 Patent); and 8,207,297 (the '297 Patent). By joint stipulation of the parties, Fresenius Pharmaceuticals Holding, Inc. and Fresenius Kabi Oncology Limited were subsequently dismissed from that lawsuit. In October and November 2016, Onyx Therapeutics also filed four separate lawsuits in the Delaware District Court against: MSN Laboratories Private Limited and MSN Pharmaceuticals, Inc. (collectively, MSN); Dr. Reddy's; Qilu Pharma, Inc. and Qilu Pharmaceutical Co. Ltd. (collectively, Qilu); and Apotex; each for infringing the '112 Patent; and a separate lawsuit against InnoPharma, Inc. for infringement of the '042, '112 and '297 Patents. In April 2017, Onyx Therapeutics filed a separate lawsuit in the Delaware District Court against Teva Pharmaceuticals USA, Inc. and Teva Pharmaceutical Industries Ltd. for infringement of the '818, '042, '704, '112, '346, '125, '126, '127 and '297 Patents. The Delaware District Court has consolidated these ten lawsuits for purposes of discovery into a single case, *Onyx Therapeutics, Inc. v. CIPLA Ltd., et al.* These ten lawsuits are based on ANDAs that seek approval to market generic versions of KYPROLIS® before expiration of the asserted patent or patents. In each lawsuit, Onyx Therapeutics seeks an order of the Delaware District Court making any FDA approval of the defendant's ANDA effective no earlier than the expiration of the applicable patents. Responses to the complaints have been filed by all defendants alleging invalidity and, in certain instances, non-infringement of the patents. Trial is scheduled to commence on March 11, 2019.

In August 2017, Onyx Therapeutics filed additional lawsuits in the Delaware District Court against InnoPharma, Inc. for infringement of the '818, '704, '346, '125, '126 and '127 Patents; and against Apotex and Qilu for infringement of the '818, '042, '704, '346, '125, '126, '127 and '297 Patents. In each lawsuit, Onyx Therapeutics seeks an order of the Delaware District Court making any FDA approval of the defendant's ANDA effective no earlier than the expiration of the applicable patents. On September 14, 2017, the Delaware District Court consolidated these three additional lawsuits for purposes of discovery into the existing consolidated case. Responses to these new complaints have been filed by InnoPharma, Inc., Apotex and Qilu alleging invalidity and, in certain instances, non-infringement of the patents.

In September 2017, by joint stipulation of the parties, Teva Pharmaceutical Industries Ltd. was dismissed from the patent infringement lawsuit that was filed in the Delaware District Court in April 2017, leaving Teva Pharmaceuticals USA, Inc. as the remaining defendant in that litigation.

In November 2017, Onyx Therapeutics filed a lawsuit in the Delaware District Court against Aurobindo Pharma USA, Inc. for infringement of the '818, '042, '704, '112, '346, '125, '126, '127 and '297 Patents. In December 2017, Onyx Therapeutics filed additional lawsuits in the Delaware District Court against Dr. Reddy's for infringement of the '818, '042, '704, '346, '125, '126, '127 and '297 Patents, and against MSN for infringement of the '112 Patent. In January, Onyx Therapeutics filed a lawsuit in the Delaware District Court against Apotex for infringement of the '818, '042, '704, '112, '346, '125, '126, '127 and '297 Patents. In each lawsuit, Onyx Therapeutics seeks an order of the Delaware District Court making any FDA approval of the defendant's ANDA effective no earlier than the expiration of the applicable patents. Responses to these complaints have been filed by Auobindo Pharma USA, Inc., Dr. Reddy's, and MSN alleging invalidity and, in certain instances, non-infringement of the patents.

In February 2018, Qilu was dismissed from the applicable lawsuit by joint stipulation of the parties.

NEUPOGEN® (filgrastim)/ Neulasta® (pegfilgrastim) Litigation

Sandoz NEUPOGEN® Patent Litigation

On October 24, 2014, Amgen Inc. and AML (collectively, Amgen) filed a lawsuit in the U.S. District Court for the Northern District of California (the California Northern District Court) against Sandoz Inc., Sandoz International GmbH and Sandoz GmbH (collectively, Sandoz) for infringement of our U.S. Patent No. 6,162,427 (the '427 Patent) and various state law claims. The lawsuit stems from Sandoz filing an application for FDA licensure of a filgrastim product as biosimilar to NEUPOGEN® under the Biologics Price Competition and Innovation Act (BPCIA), while having deliberately failed to comply with the BPCIA's disclosure requirement to Amgen as the reference product sponsor. By its complaint, Amgen seeks, among other remedies, an injunction to cease Sandoz's unauthorized reliance on Amgen's Biologics License Application (BLA) for filgrastim and an injunction to prevent Sandoz from infringing, or inducing any infringing use of, filgrastim.

On March 19, 2015, the California Northern District Court issued an order dismissing with prejudice Amgen's state law claims, and entered judgment in favor of Sandoz Inc. on its cross-motion for partial judgment on the pleadings. The order also denied Amgen's motion for a preliminary injunction, as well as Amgen's motion for partial judgment on the pleadings. On a joint motion of the parties, on March 25, 2015, the California Northern District Court entered final judgment on the claims and counterclaims decided by the court's March 19 order. The remaining patent infringement claim, counterclaim and defenses were stayed by the court pending appeal. On March 25, 2015, Amgen appealed both the judgment in favor of Sandoz Inc. and the denial

of Amgen's motion for preliminary injunction to the Federal Circuit Court. On May 5, 2015, the Federal Circuit Court entered an injunction prohibiting Sandoz Inc. from marketing, selling, offering for sale, or importing into the United States Sandoz's FDA-approved Zarxio® biosimilar product until the Federal Circuit Court resolved the appeal.

On July 21, 2015, the Federal Circuit Court affirmed the California Northern District Court's dismissal of Amgen's state law claims concluding that the only remedies available for a biosimilar applicant's failure to provide its BLA by the statutory deadline is to bring a patent infringement claim and seek those patent remedies provided by the statute. The Federal Circuit Court also concluded that a biosimilar applicant must give 180-day advance notice of first commercial marketing after the FDA has licensed the biosimilar product. Accordingly, the Federal Circuit Court entered an order that its previously entered injunction be extended through September 2, 2015 (180 days from Sandoz Inc.'s notice given after FDA approval).

On February 16, 2016, Sandoz filed a petition for certiorari with the U.S. Supreme Court seeking review of the Federal Circuit Court ruling concluding that a biosimilar applicant must give 180-day advance notice of first marketing and that notice can be given only after the FDA has licensed the biosimilar product. On March 21, 2016, Amgen filed a brief in opposition to Sandoz's petition and a conditional cross-petition for certiorari requesting that the U.S. Supreme Court also review the Federal Circuit Court's ruling that the only remedy available when a biosimilar applicant refuses to provide its BLA is to bring a patent infringement claim. On June 12, 2017, the U.S. Supreme Court reversed the Federal Circuit Court ruling that a biosimilar applicant must wait to give the 180-day advance notice of first commercial marketing until after the FDA has licensed the biosimilar product, holding that such notice can be given either before or after the FDA approval. On a second issue, the U.S. Supreme Court vacated the Federal Circuit Court's decision that the only remedy available when a biosimilar applicant refuses to provide its BLA is to bring a patent infringement claim. The U.S. Supreme Court agreed with the Federal Circuit Court that there is no remedy under federal law for failing to make the disclosure but remanded the case to the Federal Circuit Court to determine whether California law would treat noncompliance with such requirement as unlawful and, if so, to determine whether the BPCIA pre-empts any additional remedy available under state law and whether Sandoz forfeited any pre-emption defense. On December 14, 2017, the Federal Circuit Court affirmed the California Northern District Court's dismissal of Amgen's state law claims, holding that the BPCIA pre-empts state law remedies for a biosimilar applicant's failure to comply with the BPCIA's disclosure requirement.

Following the California Northern District Court's September 8, 2015 lift of the stay of the case, the parties continued to litigate the remaining patent infringement claim, counterclaim and defenses. On October 15, 2015, Amgen filed a first supplemental and amended complaint adding to the lawsuit Sandoz's infringement of U.S. Patent No. 8,940,878 (the '878 Patent), which covers methods of purifying proteins. On September 13, 2017, by joint stipulation of the parties, the California Northern District Court dismissed from the case the parties' respective claims and counterclaims related to the '427 Patent. On October 25, 2017, Sandoz filed motions for summary judgment of noninfringement of the '878 Patent and for summary judgment regarding damages. On December 19, 2017, the California Northern District Court granted Sandoz's summary judgment of noninfringement. Sandoz's motion for summary judgment regarding damages was denied as moot. On January 8, 2018, the California Northern District Court entered judgment of noninfringement of the '878 and '427 Patents and dismissed without prejudice Sandoz's counterclaims of invalidity of the '878 and '427 Patents. Amgen filed an appeal of the judgment on February 5, 2018.

Sandoz Neulasta® Patent Litigation

On May 12, 2016, Amgen filed a lawsuit in the California Northern District Court against Sandoz and Lek Pharmaceuticals d.d. for infringement of the '878 Patent and 5,824,784 (the '784 Patent) in accordance with the patent provisions of the BPCIA. The lawsuit stems from Sandoz filing an application for FDA licensure of a pegfilgrastim product as biosimilar to Neulasta®. On June 23, 2016, Sandoz responded to the complaint, denying infringement and seeking judgment that the patents-in-suit are invalid and/or not infringed. On December 7, 2016, by joint stipulation of the parties, the California Northern District Court dismissed from the case all claims and counterclaims related to the '784 Patent. On October 25, 2017, Sandoz filed motions for summary judgment of noninfringement of the '878 Patent and for summary judgment regarding damages. On December 19, 2017, the California Northern District Court granted Sandoz's summary judgment of noninfringement of the '878 Patent. Sandoz's motion for summary judgment regarding damages was denied as moot. On January 8, 2018, the California Northern District Court entered judgment of noninfringement of the '878 Patent and dismissed without prejudice Sandoz's counterclaims of invalidity of the '878 Patent. Amgen filed an appeal of the judgment on February 5, 2018.

Apotex NEUPOGEN®/Neulasta® Patent Litigation

On August 6 and October 2, 2015, Amgen filed two separate lawsuits in the U.S. District Court for the Southern District of Florida (the Florida Southern District Court) against Apotex for infringement of our U.S. Patent Nos. 8,952,138 (the '138 Patent), the '784 Patent and the '427 Patent, in accordance with the patent provisions of the BPCIA and for a declaration that Apotex's pre-licensure notice of commercial marketing is legally ineffective. These lawsuits stem from Apotex's submissions of applications for FDA licensure of a pegfilgrastim product as biosimilar to Amgen's Neulasta®, and a filgrastim product as biosimilar to Amgen's NEUPOGEN®, respectively. By its complaints, Amgen seeks, among other remedies, an injunction prohibiting Apotex from

infringing the '138, '784 and '427 Patents and enjoining Apotex from commencing commercial marketing of any biosimilar pegfilgrastim product or biosimilar filgrastim product, respectively, until a date that is at least 180 days after Apotex provides legally effective notice to Amgen. Apotex answered the August 6 complaint on October 5, 2015, denying patent infringement, alleging that the patents are invalid, alleging sham litigation in violation of the Sherman Antitrust Act, seeking a declaration that the '138 Patent is unenforceable for patent misuse and seeking a declaration on the interpretation of the BPCIA commercial notice provision. On November 3, 2015, the Florida Southern District Court consolidated the two lawsuits into a single case.

On December 9, 2015, the Florida Southern District Court granted Amgen's motion for preliminary injunction prohibiting Apotex from commercializing its biosimilar pegfilgrastim product until a date that is at least 180 days after Apotex provides legally effective commercial notice to Amgen. On July 5, 2016, the Federal Circuit Court affirmed the Florida Southern District Court injunction, holding that the 180-day notice of commercial marketing is mandatory under the BPCIA and can be given only post-FDA licensure of the biosimilar product. On September 9, 2016, Apotex petitioned the U.S. Supreme Court for certiorari, seeking review of the Federal Circuit Court holding. On December 12, 2016, the U.S. Supreme Court denied Apotex's petition for certiorari.

On June 15, 2016, the Florida Southern District Court dismissed without prejudice all claims and counterclaims related to the '427 and '784 Patents on the parties' joint stipulation of dismissal. In a separate order that same day, the Florida Southern District Court also dismissed without prejudice all counterclaims related to unlawful monopolization in violation of the Sherman Antitrust Act on the parties' joint stipulation of dismissal. On June 24, 2016, the Florida Southern District Court issued a further claim construction decision granting the motion for summary judgment of no literal infringement of the '138 Patent filed by Apotex and denying the motion with respect to no infringement under the doctrine of equivalents. On July 11, 2016, trial began on infringement of the '138 Patent and Apotex's counterclaims and defenses. On September 16, 2016, the Florida Southern District Court entered final judgment that Apotex's process of manufacturing its filgrastim and pegfilgrastim products do not infringe the '138 Patent, dismissing without prejudice Apotex's remaining invalidity counterclaim for patent invalidity, and making permanent the injunction compelling Apotex to provide 180-day advance notice of first commercial marketing of its filgrastim and pegfilgrastim products if and when the FDA approves these products. Amgen appealed and on November 13, 2017, the Federal Circuit Court affirmed the Florida Southern District Court's judgment.

On February 17, 2017, the Patent Trial and Appeal Board (PTAB) of the U.S. Patent and Trademark Office granted Apotex's petition to institute an *inter partes* review (IPR) of the '138 Patent, challenging claims of the '138 Patent as unpatentable. On May 22, 2017, Amgen filed its response and oral argument was held before the PTAB on December 13, 2017.

Coherus Neulasta® Patent Litigation

On May 10, 2017, Amgen filed a lawsuit in the Delaware District Court against Coherus BioSciences, Inc. (Coherus) for infringement of our U.S. Patent No. 8,273,707 (the '707 Patent). This lawsuit stems from Coherus' submission of an application for FDA licensure of a pegfilgrastim product as biosimilar to Amgen's Neulasta® under the BPCIA. By its complaint, Amgen seeks, among other remedies, an injunction prohibiting Coherus from infringing the '707 Patent. On June 1, 2017, Coherus filed a motion to dismiss the complaint as purportedly failing to state a claim of patent infringement. On December 7, 2018, a magistrate judge recommended that the motion be granted with prejudice. Amgen filed objections to the recommendation and awaits a ruling by the court on Coherus' motion to dismiss. A claim construction hearing is scheduled for June 25, 2018, and trial is scheduled to commence on September 16, 2019.

Mylan Neulasta® Patent Litigation

On September 22, 2017, Amgen Inc. and AML (collectively, Amgen) filed a lawsuit in the District Court for the Western District of Pennsylvania against Mylan Inc., Mylan Pharmaceuticals Inc., Mylan GmbH, and Mylan N.V. (collectively, Mylan) for infringement of our '707 Patent and U.S. Patent No. 9,643,997 (the '997 Patent). This lawsuit stems from Mylan's submission of an application for FDA licensure of a pegfilgrastim product as biosimilar to Amgen's Neulasta® under the BPCIA. By its complaint, Amgen seeks, among other remedies, an injunction prohibiting Mylan from infringing the '707 and '997 Patents. On November 22, 2017, Mylan answered the complaint, denying patent infringement and alleging that the patents are invalid.

ENBREL (etanercept) Litigation

Sandoz ENBREL Patent Litigation

On February 26, 2016, two affiliates of Amgen Inc. (Immunex Corporation and AML (collectively, Amgen)), along with Hoffmann-La Roche Inc. (Roche), filed a lawsuit in U.S. District Court for the District of New Jersey (the New Jersey District Court) against Sandoz. This lawsuit stems from Sandoz's submission of an application for FDA licensure of an etanercept product as biosimilar to Amgen's ENBREL. Amgen and Roche have asserted infringement of five patents: U.S. Patent Nos. 8,063,182 (the '182 Patent); 8,163,522 (the '552 Patent); 7,915,225; 8,119,605; and 8,722,631 (the '631 Patent). By their complaint, Amgen and Roche seek an injunction to prohibit Sandoz from commercializing its biosimilar etanercept product in the United States prior to

the expiry of such patents. Responses have been filed by all Sandoz defendants denying infringement and/or asserting that the patents at issue are invalid. On August 11, 2016, and subject to the terms of a confidential stipulation, the New Jersey District Court entered a preliminary injunction prohibiting Sandoz from making, using, importing, selling or offering for sale Sandoz's etanercept product. Trial is scheduled to start on April 17, 2018. On August 30, 2016, the FDA approved Sandoz's Erelzi™, a biosimilar to ENBREL.

On September 14, 2017, Amgen filed a motion for summary judgment that Sandoz infringed claim 1 of the '631 Patent and, on October 23, 2017, Sandoz filed its brief in opposition to the motion.

Coherus ENBREL Patent Challenge

On August 4 and September 7, 2017, Coherus filed separate petitions seeking to institute IPR proceedings before the PTAB of the U.S. Patent and Trademark Office to challenge the patentability of each claim of the '522 Patent and the '182 Patent, respectively. Both the '522 Patent and the '182 Patent relate to ENBREL and are exclusively licensed to our subsidiary Immunex Corporation by Roche. Patent owner preliminary responses to the Coherus IPR petition were filed on December 13, 2017 regarding the '522 Patent and on December 15, 2017 regarding the '182 Patent, explaining that Coherus' petitions are without merit and requesting that the PTAB not institute IPR proceedings. The deadlines by which the PTAB is expected to render a decision regarding whether to institute IPR trial proceedings on the '522 Patent and the '182 Patent are March 15 and March 26, 2018, respectively.

Hospira EPOGEN® (epoetin alfa) Patent Litigation

On September 18, 2015, Amgen filed a lawsuit in the Delaware District Court against Hospira, Inc. (Hospira), a subsidiary of Pfizer, for infringement of Amgen's U.S. Patent Nos. 5,856,298 (the '298 Patent) and 5,756,349 (the '349 Patent) in accordance with the patent provisions of the BPCIA and for a declaration that Hospira has failed to comply with certain requirements of the BPCIA. This lawsuit stems from the submission by Hospira under the BPCIA of an application for FDA licensure of an epoetin product as biosimilar to Amgen's EPOGEN®. By its complaint, Amgen seeks, among other remedies, an injunction prohibiting Hospira from using or selling infringing cells and/or product manufactured during the '298 or the '349 Patent terms and enjoining Hospira from commencing commercial marketing of any biosimilar epoetin product until a date that is at least 180 days after Hospira provides legally effective notice to Amgen.

On August 19, 2016, Hospira responded to the complaint denying patent infringement and any violation of the BPCIA and seeking judgment that the patents-in-suit are invalid and not infringed by Hospira. On January 23, 2017, the Delaware District Court entered an order construing the claims of the '349 and '298 Patents and holding that two claims of the '298 Patent are invalid for failure to properly narrow the claim on which they depend.

On September 22, 2017, after a five-day trial, the jury returned a verdict finding the '298 Patent valid and infringed by Hospira and the '349 Patent not infringed. The jury awarded Amgen \$70 million in damages for Hospira's infringement. On October 23, 2017, Hospira moved for judgment as a matter of law of non-infringement and invalidity of the '298 Patent or, in the alternative, for reduction of the damage award or a new trial on the '298 Patent.

MVASI™ (bevacizumab-awwb) Patent Litigation

On October 6, 2017, Amgen filed a lawsuit in the U.S. District Court for the Central District of California (the California Central District Court) against Genentech, Inc. (Genentech) and City of Hope seeking a declaratory judgment that 27 patents listed by Genentech in the BPCIA exchange are invalid, unenforceable and/or not infringed by MVASI™, Amgen's biosimilar of Avastin® (bevacizumab). On February 2, 2018, the California Central District Court granted Genentech and City of Hope's motion to dismiss for lack of subject matter jurisdiction.

On October 6 and October 18, 2017, Genentech and City of Hope filed separate lawsuits in the Delaware District Court alleging Amgen's infringement of (i) 24 of the 27 patents listed by Genentech in the BPCIA exchange and (ii) 25 of the same 27 patents and, in each case, for non-compliance with certain provisions of the BPCIA. On December 6, 2017, Genentech and City of Hope amended their complaints to allege that Amgen will also infringe newly issued U.S. Patent No. 9,795,672. On January 22, 2018, Amgen's motions to transfer the two Delaware lawsuits to the California Central District Court were denied.

State Derivative Litigation

The three state stockholder derivative complaints filed against Amgen, Kevin W. Sharer, George J. Morrow, Dennis M. Fenton, Brian M. McNamee, Roger M. Perlmutter, David Baltimore, Gilbert S. Omenn, Judith C. Pelham, Frederick W. Gluck, Jerry D. Choate, J. Paul Reason, Frank J. Biondi, Jr., Leonard D. Schaeffer, Frank C. Herringer, Richard D. Nanula, Willard H. Dere, Edward V. Fritsky, Franklin P. Johnson, Jr. and Donald B. Rice as defendants (the State Defendants) on May 1, 2007 (*Larson v. Sharer, et al.*, & *Anderson v. Sharer, et al.*), and August 13, 2007 (*Weil v. Sharer, et al.*) in the Superior Court of the State of California, Ventura County (the Ventura County Superior Court) were consolidated by the Ventura County Superior Court under

one action captioned *Larson v. Sharer, et al.* The consolidated complaint was filed on July 5, 2007. The complaint alleges that the State Defendants breached their fiduciary duties, wasted corporate assets, were unjustly enriched and violated the California Corporations Code. Plaintiffs allege that the State Defendants failed to disclose and/or misrepresented results of Aranesp[®] clinical studies, marketed both Aranesp[®] and EPOGEN[®] for off-label uses and that these actions or inactions caused stockholders to suffer damages. The complaints also allege insider trading by the State Defendants. The plaintiffs seek treble damages based on various causes of action, reformed corporate governance, equitable and/or injunctive relief, restitution, disgorgement of profits, benefits and other compensation, and legal costs.

An amended consolidated complaint was filed on March 13, 2008, adding Anthony Gringeri as a State Defendant and removing the causes of action for insider selling and misappropriation of information, violation of California Corporations Code Section 25402 and violation of California Corporations Code Section 25403. On July 14, 2008, the Ventura County Superior Court dismissed without prejudice the consolidated state derivative class action. On July 24, 2013, the plaintiffs filed an amended complaint asserting additional grounds for the defendants' alleged breaches of fiduciary duty. By stipulation of the parties, the case was stayed pending resolution of the *In re Amgen Inc. Securities Litigation* action. Final settlement by the parties of the *In re Amgen Inc. Securities Litigation* action was approved by the court in October 2016, and on February 10, 2017, the Ventura County Superior Court lifted the stay in *Larson v. Sharer, et al.* On June 2, 2017, plaintiffs filed a third amended complaint with the Ventura County Superior Court in this case (now captioned *Anderson v. Sharer, et al.*), adding Robert A. Bradway, François de Carbonnel, Vance D. Coffman, Robert A. Eckert, Rebecca M. Henderson, Tyler Jacks, and Ronald D. Sugar as additional State Defendants and removing Chris Larson as a plaintiff. The third amended complaint adds additional allegations, including that Amgen engaged in improper marketing with respect to ENBREL, Vectibix[®], Sensipar[®], and XGEVA[®]. On July 3, 2017, the State Defendants filed demurrers seeking dismissal of all claims. On November 13, 2017, the Ventura County Superior Court granted the State Defendants' demurrers without leave to amend. On December 20, 2017, the Ventura County Superior Court entered a judgment in favor of the State Defendants and dismissed the matter with prejudice.

U.S. Attorney's Office for the District of Massachusetts—Patient Assistance Investigation

Amgen, together with other companies in our industry, has received inquiries from the U.S. Attorney's Office for the District of Massachusetts relating to support of charitable 501(c)(3) organizations that provide financial assistance to Medicare patients. Amgen is cooperating with this ongoing inquiry.

Commitments

Lease commitments

We lease certain facilities and equipment related primarily to administrative, R&D, sales and marketing activities under noncancelable operating leases that expire through 2043. The following table summarizes the minimum future rental commitments under noncancelable operating leases as of December 31, 2017 (in millions):

| | Amount |
|--|---------------|
| 2018 | \$ 158 |
| 2019 | 126 |
| 2020 | 116 |
| 2021 | 100 |
| 2022 | 59 |
| Thereafter | 91 |
| Total minimum operating lease commitments | \$ 650 |

Included in the table above are future rental commitments for abandoned leases in the amount of \$264 million. There were no material charges for lease abandonments related to the restructuring plan that commenced in 2014. See Note 2, Restructuring. We expect to receive total future rental income of \$205 million relating to noncancelable subleases of abandoned facilities. Rental expense on operating leases for the years ended December 31, 2017, 2016 and 2015, was \$159 million, \$134 million and \$133 million, respectively.

U.S. repatriation tax commitments

Under the 2017 Tax Act, we will elect to pay the repatriation tax primarily related to our prior indefinitely invested earnings of our foreign operations in eight annual installments beginning in April 2018. See Note 5, Income taxes. As of December 31, 2017, we expect to pay \$7.3 billion in repatriation taxes during the following years (in millions):

| | Amount |
|--|-----------------|
| 2018 | \$ 585 |
| 2019 | 585 |
| 2020 | 585 |
| 2021 | 585 |
| 2022 | 585 |
| Thereafter | 4,391 |
| Total U.S. repatriation tax commitments | \$ 7,316 |

19. Segment information

We operate in one business segment: human therapeutics. Therefore, results of our operations are reported on a consolidated basis for purposes of segment reporting, consistent with internal management reporting. Enterprise-wide disclosures about product sales; revenues and long-lived assets by geographic area; and revenues from major customers are presented below.

Revenues

Revenues were as follows (in millions):

| | Years ended December 31, | | |
|---|---------------------------------|------------------|------------------|
| | 2017 | 2016 | 2015 |
| Product sales: | | | |
| ENBREL | \$ 5,433 | \$ 5,965 | \$ 5,364 |
| Neulasta [®] | 4,534 | 4,648 | 4,715 |
| Aranesp [®] | 2,053 | 2,093 | 1,951 |
| Prolia [®] | 1,968 | 1,635 | 1,312 |
| Sensipar [®] /Mimpara [®] | 1,718 | 1,582 | 1,415 |
| XGEVA [®] | 1,575 | 1,529 | 1,405 |
| EPOGEN [®] | 1,096 | 1,282 | 1,856 |
| KYPROLIS [®] | 835 | 692 | 512 |
| Vectibix [®] | 642 | 611 | 549 |
| Nplate [®] | 642 | 584 | 525 |
| NEUPOGEN [®] | 549 | 765 | 1,049 |
| Repatha [®] | 319 | 141 | 10 |
| BLINCYTO [®] | 175 | 115 | 77 |
| Other | 256 | 250 | 204 |
| Total product sales | 21,795 | 21,892 | 20,944 |
| Other revenues | 1,054 | 1,099 | 718 |
| Total revenues | \$ 22,849 | \$ 22,991 | \$ 21,662 |

Geographic information

Outside the United States, we sell products principally in Europe. The geographic classification of product sales is based on the location of the customer. The geographic classification of all other revenues is based on the domicile of the entity from which the revenues were earned.

Certain geographic information with respect to revenues and long-lived assets (consisting of property, plant and equipment, net) was as follows (in millions):

| | Years ended December 31, | | |
|---------------------------|--------------------------|-----------|-----------|
| | 2017 | 2016 | 2015 |
| Revenues: | | | |
| United States | \$ 18,029 | \$ 18,326 | \$ 17,167 |
| Rest of the world (ROW) | 4,820 | 4,665 | 4,495 |
| Total revenues | \$ 22,849 | \$ 22,991 | \$ 21,662 |
| December 31, | | | |
| | 2017 | 2016 | |
| Long-lived assets: | | | |
| United States | \$ 2,349 | \$ 2,328 | |
| Puerto Rico | 1,527 | 1,591 | |
| ROW | 1,113 | 1,042 | |
| Total long-lived assets | \$ 4,989 | \$ 4,961 | |

Major customers

In the United States, we sell primarily to pharmaceutical wholesale distributors that we utilize as the principal means of distributing our products to healthcare providers. Outside the United States, we sell principally to healthcare providers and/or pharmaceutical wholesale distributors depending on the distribution practice in each country. We monitor the financial condition of our larger customers and limit our credit exposure by setting credit limits and, in certain circumstances, by requiring letters of credit or obtaining credit insurance.

We had product sales to three customers each accounting for more than 10% of total revenues for each of the years ended December 31, 2017, 2016 and 2015. For the year ended December 31, 2017, on a combined basis, these customers accounted for 81% and 96% of total gross revenues and U.S. gross product sales, respectively, as noted in the following table. Certain information with respect to these customers was as follows (dollar amounts in millions):

| | Years ended December 31, | | |
|---------------------------------------|--------------------------|-----------|-----------|
| | 2017 | 2016 | 2015 |
| AmerisourceBergen Corporation: | | | |
| Gross product sales | \$ 10,742 | \$ 10,100 | \$ 10,038 |
| % of total gross revenues | 31% | 31% | 34% |
| % of U.S. gross product sales | 37% | 38% | 42% |
| McKesson Corporation: | | | |
| Gross product sales | \$ 10,625 | \$ 9,710 | \$ 8,766 |
| % of total gross revenues | 30% | 30% | 30% |
| % of U.S. gross product sales | 35% | 34% | 34% |
| Cardinal Health, Inc.: | | | |
| Gross product sales | \$ 7,049 | \$ 6,520 | \$ 5,045 |
| % of total gross revenues | 20% | 20% | 17% |
| % of U.S. gross product sales | 24% | 24% | 21% |

As of December 31, 2017 and 2016, amounts due from these three customers each exceeded 10% of gross trade receivables and accounted for 75% and 76%, respectively, of net trade receivables on a combined basis. As of December 31, 2017 and 2016, 14% and 21%, respectively, of trade receivables, net, were due from customers located outside the United States, primarily in Europe. Our total allowance for doubtful accounts as of December 31, 2017 and 2016 was not material.

20. Quarterly financial data (unaudited)

The following tables summarize the Company's unaudited financial data on a quarterly basis. The sum of the quarterly earnings (loss) per share amounts may not equal the amount reported for the full year since per share amounts are computed independently for each quarter and for the full year based on respective weighted-average shares outstanding and dilutive securities.

Quarterly financial data is summarized as follows (in millions, except per share data):

| | 2017 Quarters ended | | | |
|---------------------------------|---------------------|--------------|----------|----------|
| | December 31 | September 30 | June 30 | March 31 |
| Product sales | \$ 5,569 | \$ 5,453 | \$ 5,574 | \$ 5,199 |
| Gross profit from product sales | \$ 4,510 | \$ 4,463 | \$ 4,550 | \$ 4,203 |
| Net (loss) income | \$ (4,264) | \$ 2,021 | \$ 2,151 | \$ 2,071 |
| (Loss) earnings per share: | | | | |
| Basic | \$ (5.89) | \$ 2.78 | \$ 2.93 | \$ 2.81 |
| Diluted ⁽¹⁾ | \$ (5.89) | \$ 2.76 | \$ 2.91 | \$ 2.79 |

| | 2016 Quarters ended | | | |
|---------------------------------|---------------------|--------------|----------|----------|
| | December 31 | September 30 | June 30 | March 31 |
| Product sales | \$ 5,663 | \$ 5,516 | \$ 5,474 | \$ 5,239 |
| Gross profit from product sales | \$ 4,596 | \$ 4,489 | \$ 4,424 | \$ 4,221 |
| Net income | \$ 1,935 | \$ 2,017 | \$ 1,870 | \$ 1,900 |
| Earnings per share: | | | | |
| Basic | \$ 2.61 | \$ 2.70 | \$ 2.49 | \$ 2.52 |
| Diluted | \$ 2.59 | \$ 2.68 | \$ 2.47 | \$ 2.50 |

⁽¹⁾ During periods of net loss, diluted loss per share is equal to basic loss per share as the anti-dilutive effect of potential common shares is disregarded.

21. Subsequent event

On October 30, 2017, we announced that we had agreed to acquire the remaining 50% ownership of K-A from Kirin, making K-A a wholly owned subsidiary of Amgen. Under the terms of the agreement, Kirin will receive \$780 million for its shares of K-A. Amgen will make additional payments to Kirin upon the occurrence of certain sales (valued by Amgen at approximately \$30 million). As sole shareholder of K-A, Amgen will own the product rights and remaining cash held by K-A. License agreements between K-A and Kirin in certain Asian territories, as well as license agreements with J&J, will remain in place. See Note 8, Related party transactions.

The transaction will be accounted for as a business combination and was effective in the first quarter of 2018. Given the timing of the closing of this share transaction, we are currently in the process of valuing the assets acquired and liabilities assumed in the business combination. As a result, we are not yet able to provide the amounts to be recognized as of the share acquisition date for the major classes of assets acquired and liabilities assumed and other related disclosures. We will disclose this and other related information in our Form 10-Q for the quarter ended March 31, 2018.

AMGEN INC.

VALUATION AND QUALIFYING ACCOUNTS

Years ended December 31, 2017, 2016 and 2015

(In millions)

| Allowance for doubtful accounts | Balance at beginning of period | Additions charged to costs and expenses | Other additions | Deductions | Balance at end of period |
|---------------------------------|--------------------------------------|--|--------------------|------------|--------------------------------|
| Year ended December 31, 2017 | \$ 51 | \$ 4 | \$ — | \$ 4 | \$ 51 |
| Year ended December 31, 2016 | \$ 55 | \$ 11 | \$ — | \$ 15 | \$ 51 |
| Year ended December 31, 2015 | \$ 50 | \$ 18 | \$ — | \$ 13 | \$ 55 |

Form of Award Notice

[The information set forth in this Award Notice will be contained on the related pages on Merrill Lynch Benefits Website (or the website of any successor company to Merrill Lynch Bank & Trust Co., FSB). This Award Notice shall be replaced by the equivalent pages on such website. References to Award Notice in this Agreement shall then refer to the equivalent pages on such website.]

This notice of Award (the "Award Notice") sets forth certain details relating to the grant by the Company to you of the Award identified below, pursuant to the Plan. The terms of this Award Notice are incorporated into the Agreement that accompanies this Award Notice and made part of the Agreement. Capitalized terms used in this Award Notice that are not otherwise defined in this Award Notice have the meanings given to such terms in the Agreement.

Employee:
 Employee ID:
 Address:
 Award Type:
 Grant ID:
 Plan: Amgen Inc. Amended and Restated 2009 Equity Incentive Plan, as amended and/or restated from time to time
 Grant Date:
 Grant Price: \$ _____
 Number of Shares
 Covered by Option:
 Expiration Date: The [_____] (____th) anniversary of the date of this Award
 Vesting Date: Means the vesting date indicated in the Vesting Schedule
 Vesting Schedule: Means the schedule of vesting set forth under Vesting Details
 Vesting Details: Means the presentation (tabular or otherwise) of the Vesting Date and the quantity of Shares vesting.

IMPORTANT NOTICE REGARDING ACCEPTANCE OF THE AWARD AND THE REQUIREMENT TO OPEN A BROKERAGE ACCOUNTⁱ:

RESIDENTS OF THE U.S. AND PUERTO RICO: Please read this Award Notice, the Plan and the Agreement (collectively, the "Grant Documents") carefully. If you, as a resident of the U.S. or Puerto Rico, do **not** wish to receive this Award and/or you do **not** consent and agree to the terms and conditions on which this Award is offered, as set forth in the Grant Documents, then you must reject the Award by contacting the Merrill Lynch call center (800) 97AMGEN (800-972-6436) within the U.S., Puerto Rico and Canada or +1 (609) 818-8910 from all other countries (Merrill Lynch will accept the charges for your call) no later than the forty-fifth

ⁱ This provision is only for use on the form of grant used for the U.S. and Puerto Rico.

calendar day following the day on which this Award Notice is made available to you, in which case the Award will be cancelled. For the purpose of determining the forty-five calendar days, Day 1 will be the day **immediately** following the day on which this Award Notice is made available to you. Your failure to notify the Company of your rejection of the Award within this specified period will constitute your acceptance of the Award and your agreement with all terms and conditions of the Award, as set forth in the Grant Documents. If you agree to the terms and conditions of your grant and you desire to accept it, then no further action is needed on your part to accept the grant. However, you must still open a brokerage account as directed by the Company, by 1:00 pm Pacific Time on or before the date that is 11 months after the date of grant. This step is necessary to process transactions related to your equity grant. **If you do not open a brokerage account by this deadline, your grant will be cancelled.**

GRANT OF STOCK OPTION AGREEMENT

THE SPECIFIC TERMS OF YOUR STOCK OPTION ARE FOUND IN THE PAGES RELATING TO THE GRANT OF STOCK OPTIONS FOUND ON MERRILL LYNCH BENEFITS WEBSITE (OR THE WEBSITE OF ANY SUCCESSOR COMPANY TO MERRILL LYNCH BANK & TRUST CO., FSB) (THE “AWARD NOTICE”) WHICH ACCOMPANIES THIS DOCUMENT. THE TERMS OF THE AWARD NOTICE ARE INCORPORATED INTO THIS GRANT OF STOCK OPTIONS.

On the Grant Date, specified in the Award Notice, Amgen Inc., a Delaware corporation (the “Company”), has granted to you, the grantee named in the Award Notice, under the plan specified in the Award Notice (the “Plan”), an option (the “Option”) to purchase the number of shares of the \$0.0001 par value common stock of the Company (the “Shares”) specified in the Award Notice, pursuant to the terms set forth in this Stock Option Agreement, any special terms and conditions for your country set forth in the attached Appendix A and the Award Notice (together, the “Agreement”). This Option is not intended to qualify and will not be treated as an “incentive stock option” within the meaning of Section 422 of the U.S. Internal Revenue Code of 1986, as amended (together with the regulations and other official guidance promulgated thereunder, the “Code”). Capitalized terms not defined herein shall have the meanings assigned to such terms in the Plan.

The terms and conditions of your Option are as follows:

I. Subject to the terms and conditions of the Plan and this Agreement, on each Vesting Date the Option shall vest with respect to the number of Shares indicated on the Vesting Schedule, provided that you have remained continuously and actively employed with the Company or an Affiliate (as defined in the Plan) through each applicable Vesting Date, unless [(i) your employment has terminated due to your Voluntary Termination (as defined in Section IV(A)(5)) or (ii)]*ⁱⁱ you experience a Qualified Termination (as defined in Section IV(B)(4)), or as otherwise determined by the Company in the exercise of its discretion as provided in Section IV(A)(7). This Option may only be exercised for whole shares of the Common Stock, and the Company shall be under no obligation to issue any fractional Shares to you. Subject to the limitations contained herein, this Option shall be exercisable with respect to each installment on or after the applicable Vesting Date. Notwithstanding anything herein to the contrary, the Vesting Schedule may be accelerated (by notice in writing) by the Company in its sole discretion at any time during the term of this Option. In addition, if not prohibited by local law, vesting may be suspended by the Company in its sole discretion during a leave of absence as provided from time to time according to Company policies and practices; provided, that, in no event shall any such suspension extend the term of this Option beyond the Expiration Date set forth on the Award Notice and in this Agreement.

II. (1) The per share exercise price of this Option is the Grant Price as defined in the Award Notice, being not less than the Fair Market Value of the Common Stock on the date of grant of this Option.

(2) To the extent permitted by applicable statutes and regulations, payment of the exercise price per share is due in full upon exercise of all or any part of each installment which has become exercisable by you by means of (i) cash or a check, (ii) any cashless exercise procedure through the use of a brokerage arrangement approved by the Company, or (iii) any other form of legal consideration that may be acceptable to the Board or the Committee in their discretion.

(3) To the extent permitted by applicable statutes and regulations, if, at the time of exercise, the Company’s Common Stock is publicly traded and quoted regularly in the Wall Street Journal, payment of the exercise price may be made by delivery of already-owned Shares of a value equal to the exercise price of the Shares for which this Option is being exercised. The already-owned Shares must have been owned by you for the period required to avoid adverse accounting treatment and owned free and clear of any liens, claims, encumbrances or security interests. Payment may also be made by a combination of cash and already-owned Shares.

ⁱⁱ Section IV (A) (5) of this Agreement is not applicable to awards identified by the Administrator as new hire, retention or promotion grants and the provisions of such selection shall be reserved and references thereto identified by an asterisk (*) shall be omitted from the agreements evidencing such grants.

Notwithstanding the foregoing, the Company reserves the right to restrict the methods of payment of the exercise price if necessary or advisable to comply with applicable law or regulation, as determined by the Company in its sole discretion.

III. Notwithstanding anything to the contrary contain herein, the Company shall not take any actions that would violate the Securities Act, the Exchange Act, the Code, or any other securities or tax or other applicable law or regulation, or the rules of any Securities Exchange. The Company, in its sole discretion, may impose any timing or other restrictions with respect to the exercise of this Option arising from compliance with any securities or tax laws or other rules or regulations. Notwithstanding anything to the contrary contained herein, this Option may not be exercised and no Shares underlying the Option will be issued unless such Shares are then registered under the Securities Act, or, if such Shares are not then so registered, the Company has determined that such exercise and issuance would be exempt from the registration requirements of the Securities Act, and that the issuance satisfies all other applicable legal requirements. If the Option cannot be exercised and expires during this period, you will forfeit the Option and no Shares or value will be transferred to you.

IV. (A) The term of this Option commences on the Grant Date and, unless sooner terminated as set forth below or in the Plan, terminates on the [_____] (____th) anniversary of the date of this Option (the “Expiration Date”). This Option shall terminate prior to the Expiration Date as follows: three (3) months after the termination of your employment with the Company or an Affiliate (as defined in the Plan) for any reason or for no reason, including if your employment is terminated by the Company or an Affiliate without Cause (as defined below), or in the event of any other termination of your employment caused directly or indirectly by the Company or an Affiliate, unless:

(1) such termination of your employment is due to your Permanent and Total Disability (as defined below), in which case the Option shall terminate on the earlier of the Expiration Date or five (5) years after termination of your employment and the vesting of the Option shall be accelerated and the Option shall be fully exercisable, subject to your execution of a general release and waiver in a form provided by the Company, as of the day immediately preceding such termination of your employment with respect to the Option, except that if the Option was granted in the calendar year in which such termination occurs, the Option shall be accelerated to vest with respect to a number of Shares equal to the number of Shares subject to the Option multiplied by a fraction, the numerator of which is the number of complete months you remained continuously and actively employed during such calendar year, and the denominator of which is twelve (12), and any portion of the Option (if any) that remains unvested shall automatically expire and terminate on the date of the termination of your active employment due to your Permanent and Total Disability without consideration therefor;

(2) such termination of your employment is due to your death, in which case the Option shall terminate on the earlier of the Expiration Date or five (5) years after your death and the vesting of the Option shall be accelerated and the Option shall be fully exercisable as of the day immediately preceding your death with respect to the Option, except that if the Option was granted in the calendar year in which your death occurs the Option shall be accelerated to vest with respect to a number of shares equal to the number of shares subject to the Option multiplied by a fraction, the numerator of which is the number of complete months you remained continuously and actively employed during such calendar year, and the denominator of which is twelve (12), and any portion of the Option (if any) that remains unvested shall automatically expire and terminate on the date of termination of your active employment due to your death without consideration therefor;

(3) during any part of such three (3) month period, this Option is not exercisable solely because of the condition set forth in Section III above, in which event this Option shall not terminate until the earlier of the Expiration Date or until it shall have been exercisable for an aggregate period of three (3) months after the termination of your employment;

(4) exercise of this Option within three (3) months after termination of your employment with the Company or with an Affiliate would result in liability under Section 16(b) of the Exchange Act, in which case this Option will terminate on the earlier of: (a) the tenth (10th) day after the last date upon which exercise would result in such

liability; (b) six (6) months and ten (10) days after the termination of your employment with the Company or an Affiliate; or (iii) the Expiration Date;

(5) [such termination of your employment is due to your voluntary termination (and such voluntary termination is not the result of Permanent and Total Disability (as defined below)) after you are at least sixty five (65) years of age, or after you are at least fifty-five (55) years of age and have been an employee of the Company and/or an Affiliate for at least ten (10) years in the aggregate as determined by the Company in its sole discretion according to Company policies and practices as in effect from time to time ("Voluntary Termination"), in which case this Option shall terminate on the earlier of the Expiration Date or five (5) years after termination of your employment and the unvested portions of this Option will become exercisable pursuant to the Vesting Schedule without regard to your Voluntary Termination of your employment prior to the Vesting Date, subject to your execution of a general release and waiver in a form provided by the Company, with respect to the Option; if the Option was granted in the calendar year in which your Voluntary Termination occurs, the Option will become exercisable pursuant to the Vesting Schedule only with respect to a number of Shares equal to the number of Shares subject to the Option multiplied by a fraction, the numerator of which is the number of complete months you remained continuously and actively employed during such calendar year, and the denominator of which is twelve (12), and any portion of the Option (if any) that remains unvested shall automatically expire and terminate on the date of the termination of your active employment due to your Voluntary Termination without consideration therefor; notwithstanding the definition of Voluntary Termination set forth above, if the Company receives an opinion of counsel that there has been a legal judgment and/or legal development in your jurisdiction that would likely result in the favorable treatment upon Voluntary Termination described above being deemed unlawful and/or discriminatory, then the Committee will not apply the favorable treatment described above;][Reserved]*ⁱⁱⁱ

(6) such termination of your employment is due to a Qualified Termination, in which case, the Option shall terminate on the earlier of (a) the date that is three (3) months following the date of such Qualified Termination or (b) the Expiration Date, and, to the extent permitted by applicable law, the vesting of the Option shall be accelerated and the Option shall be fully exercisable as of the day immediately prior to the Qualified Termination; or

(7) the Company determines, in its sole discretion at any time during the term of this Option, in writing, to otherwise extend the period of time during which this Option will vest and may be exercised after termination of your employment; provided, that, in no event shall any such extension extend the term of this Option beyond the Expiration Date set forth on the Award Notice and in this Agreement.

However, in any and all circumstances and except to the extent the Vesting Schedule has been accelerated by the Company in its sole discretion during the term of this Option or as a result of your Permanent and Total Disability or death as provided in Sections IV(A)(1) or IV(A)(2) above, respectively, [as a result of your Voluntary Termination as provided in Section IV(A)(5) above,]* as a result of a Change of Control as provided in Section IV(A)(6) above or as otherwise determined by the Company in the exercise of its discretion as provided in Section IV(A)(7) above, this Option may be exercised following termination of your employment only as to that number of Shares as to which it was exercisable on the date of termination of your employment under the provisions of Section I of this Agreement.

(B) For purposes of this Option:

(1) "termination of your employment" shall mean the last date you are either an active employee of the Company or an Affiliate or actively engaged as a Director to the Company or an Affiliate; in the event of termination of your employment (whether or not later found to be invalid or in breach of employment laws in the jurisdiction where you

ⁱⁱⁱ Section IV (A) (5) of this Agreement is not applicable to awards identified by the Administrator as new hire, retention or promotion grants and the provisions of such selection shall be reserved and references thereto identified by an asterisk (*) shall be omitted from the agreements evidencing such grants.

are employed or the terms of your employment agreement, if any), your right to receive options and vest under the Plan, if any, will terminate effective as of the date that you are no longer actively employed and will not be extended by any notice period (*e.g.*, active employment would not include any period of “garden leave” or similar period mandated under employment laws in the jurisdiction where you are employed or the terms of your employment agreement, if any). Your right, if any, to exercise the Option after termination of employment will be measured by the date of termination of your active employment and will not be extended by any notice period mandated under local law. The Administrator shall have the exclusive discretion to determine when you are no longer actively providing services for purposes of this Agreement (including whether you may still be considered to be providing services while on a leave of absence);

(2) “Cause” shall mean (i) your conviction of a felony (or similar crime under applicable law, as determined by the Company), or (ii) your engaging in conduct that constitutes willful gross neglect or willful gross misconduct in carrying out your duties, resulting, in either case, in material economic harm to the Company or any Affiliate, unless you believed in good faith that such conduct was in, or not contrary to, the best interests of the Company or any Affiliate. For purposes of clause (ii) above, no act, or failure to act, on your part shall be deemed “willful” unless done, or omitted to be done, by you not in good faith;

(3) “Permanent and Total Disability” shall have the meaning ascribed to such term under Section 22(e)(3) of the Code and with such permanent and total disability being certified prior to termination of your employment by (a) the U.S. Social Security Administration, (b) the comparable governmental authority applicable to an Affiliate, (c) such other body having the relevant decision-making power applicable to an Affiliate, or (d) an independent medical advisor appointed by the Company in its sole discretion, as applicable, in any such case;

(4) “Qualified Termination” shall mean

(a) if you are an employee who participates in the Change of Control Plan (as defined below), your termination of employment within two (2) years following a Change of Control (i) by the Company other than for Cause, Disability (as defined below) or as a result of your death, or (ii) by you for Good Reason (as defined in the Change of Control Plan); or

(b) if you are an employee who does not participate in the Change of Control Plan or the Change of Control Plan is no longer in effect, your termination of employment within two (2) years following a Change of Control by the Company other than for Cause, Disability (as defined below) or as a result of your death;

(5) “Change of Control” shall mean the occurrence of any of the following:

(a) the acquisition (other than from the Company) by any person, entity or “group,” within the meaning of Section 13(d)(3) or 14(d)(2) of the Exchange Act (excluding, for this purpose, the Company or any of its Affiliates, or any employee benefit plan of the Company or any of its Affiliates which acquires beneficial ownership of voting securities of the Company), of beneficial ownership (within the meaning of Rule 13d-3 promulgated under the Exchange Act) of fifty percent (50%) or more of either the then outstanding Shares or the combined voting power of the Company’s then outstanding voting securities entitled to vote generally in the election of directors; or

(b) the consummation by the Company of a reorganization, merger, consolidation, (in each case, with respect to which persons who were the stockholders of the Company immediately prior to such reorganization, merger or consolidation do not, immediately thereafter, own more than fifty percent (50%) of the combined voting power entitled to vote generally in the election of directors of the reorganized, merged or consolidated company’s then outstanding voting securities) or a liquidation or dissolution of the Company or of the sale of all or substantially all of the assets of the Company.

Notwithstanding anything herein or in any Award Agreement to the contrary, if a Change of Control constitutes a payment event with respect to any Award that is subject to United States income tax and which provides for a deferral of compensation that is subject to Section 409A of the Code, the transaction or event described in subsection (a) or (b), (c) above must also constitute a “change in control event,” as defined in U.S. Treasury Regulation §1.409A-3(i)(5), in order to constitute a Change of Control for purposes of payment of such Award.

(6) “Change of Control Plan” shall mean the Company’s change of control and severance plan, including the Amgen Inc. Change of Control Severance Plan, as amended and restated, effective as of December 9, 2010 (and any subsequent amendments thereto), or any equivalent plan governing the provision of benefits to eligible employees upon the occurrence of a Change of Control (including resulting from a termination of employment that occurs within a specified time period following a Change of Control), as in effect immediately prior to a Change of Control; and

(7) “Disability” shall be determined in accordance with the Company’s long-term disability plan as in effect immediately prior to a Change of Control.

V. (A) To the extent specified above, this Option may be exercised by delivering a notice of exercise in person, by mail, via electronic mail or facsimile or by other authorized method designated by the Company, together with the exercise price to the Company Stock Administrator, or to such other person as the Company Stock Administrator may designate, during regular business hours, together with such additional documents as the Company may then require pursuant to Section 7.2(b) of the Plan.

(B) Regardless of any action the Company or your actual employer (the “Employer”) takes with respect to any or all income tax (including federal, state and local taxes), social insurance, payroll tax, fringe benefit tax, payment on account or other tax-related items related to your participation in the Plan and legally applicable to you (“Tax Obligations”), you acknowledge that the ultimate liability for all Tax Obligations is and remains your responsibility and may exceed the amount, if any, actually withheld by the Company and/or your Employer. You further acknowledge that the Company and/or your Employer: (a) make no representations or undertakings regarding the treatment of any Tax Obligations in connection with any aspect of the Option grant, including, but not limited to, the grant, vesting or exercise of the Option, the subsequent sale of Shares acquired pursuant to such exercise and the receipt of any dividends; and (b) do not commit to and are under no obligation to structure the terms of the grant or any aspect of the Option to reduce or eliminate your liability for Tax Obligations or achieve any particular tax result. Furthermore, if you become subject to tax in more than one jurisdiction, you acknowledge that the Company and/or your Employer (or former employer, as applicable) may be required to withhold or account for Tax Obligations in more than one jurisdiction.

(C) Prior to any relevant taxable or tax withholding event, as applicable, you shall pay or make adequate arrangements satisfactory to the Company and/or your Employer to satisfy all Tax Obligations. In this regard, you authorize the Company and/or your Employer, or their respective agents, at their discretion, to satisfy all applicable Tax Obligations by one or a combination of the following:

- (1) withholding from your wages or other cash compensation paid to you by the Company and/or your Employer;
- (2) withholding from proceeds of the sale of Shares acquired upon exercise of the Option either through a voluntary sale or through a mandatory sale arranged by the Company (on your behalf pursuant to this authorization); or
- (3) withholding in Shares to be issued or cash to be paid upon exercise of the Option, provided that, if Shares are withheld, the Company and your Employer shall only withhold an amount of Shares with a fair market value equal to the Tax Obligations.

Depending on the withholding method, the Company may withhold or account for Tax Obligations by considering applicable minimum statutory withholding rates or other applicable withholding rates, including maximum applicable rates. If the Tax Obligations are satisfied by withholding in Shares, for tax purposes, you are deemed to have been issued the full number of Shares subject to the exercised Option, notwithstanding that a number of the Shares is held back solely for the purpose of paying the Tax Obligations due as a result of any aspect of your participation in the Plan.

(D) Finally, you shall pay to the Company or your Employer any amount of Tax Obligations that the Company or your Employer may be required to withhold or account for as a result of your participation in the Plan that cannot be satisfied by the means previously described. You agree to take any further actions and execute any additional documents as may be necessary to effectuate the provisions of this Section V. Notwithstanding anything to the contrary contained herein, the Company may refuse to issue or deliver the Shares or the proceeds of the sale of Shares if you fail to comply with your obligations in connection with the Tax Obligations.

VI. This Option is not transferable, except by will or the laws of descent and distribution, and is exercisable during your life only by you except if you have named a trust created for the benefit of you, your spouse, or members of your immediate family (a "Trust") as beneficiary of this Option, this Option may be exercised by the Trust after your death.

VII. Any notices provided for in this Option or the Plan shall be given in writing or electronically and shall be deemed effectively given upon receipt or, in the case of notices delivered by the Company to you, five (5) days after deposit in the United States mail or equivalent foreign postal service, postage prepaid, addressed to you at such address as is currently maintained in the Company's records or at such other address as you hereafter designate by written notice to the Company Stock Administrator. Such notices may be given using any automated system for the documentation, granting or exercise of Awards, such as a system using an internet website or interactive voice response, as approved by the Company.

VIII. This Option is subject to all the provisions of the Plan and its provisions are hereby made a part of this Option, including without limitation the provisions of Articles 6 and 7 of the Plan relating to Options, and is further subject to all interpretations, amendments, rules and regulations which may from time to time be promulgated and adopted pursuant to the Plan. In the event of any conflict between the provisions of this Option and those of the Plan, the provisions of the Plan shall control.

IX. ***You hereby expressly consent to the collection, use and transfer, in electronic or other form, of your personal data as described in this Option for the exclusive purpose of implementing, administering and managing your participation in the Plan. In order for the Company and your Employer to facilitate your participation in the Plan, the Company and your Employer must collect and use personal data about you. In accordance with applicable laws, reasonable security measures will be implemented and maintained to protect the security of your personal data; however, you understand that absolute security cannot be guaranteed.***

You understand that the Company and your Employer may hold certain personal information about you, including your name, home address and telephone number, email address, date of birth, social insurance number (to the extent permitted under applicable local law), passport or other identification number, salary, nationality, job title/work history/service periods, residency status, citizenship, tax withholding and payroll data, any shares of stock or directorships held in the Company, details of all equity compensation or any other entitlement to Shares awarded, cancelled, vested, unvested or outstanding in your favor, for the purposes of implementing, administering and managing the Plan ("personal data").

You authorize the transfer of your personal data to Merrill Lynch Bank & Trust Co., FSB (or any successor thereto), and any other third parties which may assist the Company (presently or in the future) with implementing, administering and managing your participation in the Plan to receive, possess, use, retain and transfer your personal data, in electronic or other form, for the purposes of implementing, administering and managing your participation in the Plan, including any requisite transfer of such personal data as may be required to any other broker, escrow agent or other third party with whom the Shares received upon exercise of this Option may be deposited. You understand that such authorized recipients of your personal data may be located in countries that do not provide the same level of data privacy laws and protections as the country in which your personal data originated. Where permitted by applicable law, you may, at any time, request access or correction to, or destruction or data portability of your personal data by contacting in writing your local human resources representative. You understand that the only consequence of refusing or withdrawing your consent is the Company would not be able to grant you Units or other equity awards or administer or maintain such awards. Your participation in the Plan is entirely voluntary. Your employment status or service with the Employer will not be affected if you do not consent. For more information on the consequences of your refusal to consent or withdrawal of consent, you understand that you may contact your local human resources representative.

X. The terms of this Option shall be governed by the laws of the State of Delaware without giving effect to principles of conflicts of laws. For purposes of litigating any dispute that arises hereunder, the parties hereby submit to and consent to the jurisdiction of the State of Delaware, and agree that such litigation shall be conducted in the courts of the State of Delaware, or the federal courts for the United States for the federal district located in the State of Delaware, and no other courts, where this Option is made and/or to be performed.

XI. Notwithstanding any provision of this Option to the contrary, if you are employed by the Company or an Affiliate in any of the countries identified in the attached Appendix A (which constitutes a part of this Agreement), are subject to the laws of any foreign jurisdiction, or relocate to one of the countries included in the attached Appendix A, the Option granted hereunder shall be subject to any special terms and conditions for your country set forth in Appendix A and the following additional terms and conditions:

- a. the terms and conditions of this Option, including Appendix A, are deemed modified to the extent necessary or advisable to comply with applicable foreign laws or facilitate the administration to the Plan;
- b. if applicable, the effectiveness of this Option is conditioned upon its compliance with any applicable foreign laws, regulations, rules or local governmental regulatory exemption and subject to receipt of any required foreign regulatory approvals; and
- c. the Company may take any other action before or after the date of this Option that it deems advisable to obtain approval or comply with any necessary local governmental regulatory exemptions or approvals.

XII. (A) In accepting this Option, you acknowledge, understand and agree that:

(1) the Plan is established voluntarily by the Company, is discretionary in nature and may be modified, amended, suspended or terminated by the Company at any time, as provided in the Plan;

(2) the grant of this Option is exceptional, voluntary and occasional and does not create any contractual or other right to receive future awards of options, or benefits in lieu of options even if options have been awarded in the past;

(3) all decisions with respect to future awards, if any, will be at the sole discretion of the Company;

(4) your participation in the Plan is voluntary;

(5) the grant of Options, the underlying Shares, and the income from and value of same, are not intended to replace any pension rights or compensation;

(6) neither the grant of options nor any provision of this Option, the Plan or the policies adopted pursuant to the Plan confer upon you any right with respect to employment or continuation of current employment and shall not interfere with the ability of the Employer to terminate your employment or service relationship (if any) at any time;

(7) in the event that you are not an employee of the Company or any Affiliate, the Option shall not be interpreted to form an employment contract or relationship with the Company or any Affiliate;

(8) the future value of the underlying Shares is unknown, indeterminable, and cannot be predicted with certainty;

(9) if the underlying Shares do not increase in value, this Option will have no value; if you exercise this Option and obtain Shares, the value of those Shares acquired upon exercise may increase or decrease in value, even below the Grant Price per Share;

(10) in consideration of the grant of this Option, no claim or entitlement to compensation or damages arises from forfeiture of options resulting from termination of your employment by the Company or an Affiliate (regardless of the reason for such termination and whether or not later found to be invalid or in breach of employment laws

in the jurisdiction where you are employed or the terms of your employment agreement, if any), and you irrevocably release the Company and your Employer from any such claim that may arise; if, notwithstanding the foregoing, any such claim is found by a court of competent jurisdiction to have arisen, you shall be deemed irrevocably to have waived your entitlement to pursue such claim;

(11) unless otherwise agreed with the Company, the Options, the underlying Shares, and the income from and value of same, are not granted as consideration for, or in connection with, the service you may provide as a director of an Affiliate of the Company;

(12) except as otherwise provided in this Agreement or the Plan, the Options and the benefits evidenced by this Agreement do not create any entitlement to have the Options or any such benefits transferred to, or assumed by, another company nor to be exchanged, cashed out or substituted for, in connection with any corporate transaction affecting the shares of the Company; and

(13) the following provisions apply only if you are providing services outside the United States:

(i) for employment law purposes outside the United States, the Option, underlying Shares, and the income from and value of same, are not part of normal or expected compensation or salary for any purpose, including but not limited to for purposes of calculating any severance, resignation, termination, redundancy, dismissal, end of service payments, bonuses, holiday pay, long-service awards, pension or retirement benefits or similar mandatory payments; and

(ii) neither the Company, the Employer nor any Affiliate of the Company shall be liable for any foreign exchange rate fluctuation between your local currency and the United States Dollar that may affect the value of the Option or of any amounts due to you pursuant to the exercise of the Option or the subsequent sale of any Shares acquired upon exercise of the Option.

(B) The Company is not providing any tax, legal or financial advice, nor is the Company making any recommendations regarding your participation in the Plan, or your acquisition or sale of the underlying Shares. You should consult with your own personal tax, legal and financial advisors regarding your participation in the Plan before taking any action related to the Plan.

XIII. If one or more of the provisions of this Option shall be held invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby and the invalid, illegal or unenforceable provisions shall be deemed null and void; however, to the extent permissible by law, any provisions which could be deemed null and void shall first be construed, interpreted or revised retroactively to permit this Option to be construed so as to foster the intent of this Option and the Plan.

XIV. By electing to accept this Agreement, you acknowledge that you are sufficiently proficient in English to understand the terms and conditions of this Agreement. Furthermore, if you have received this Option or any other document related to the Plan translated into a language other than English and if the meaning of the translated version is different than the English version, the English version will control.

XV. This Option is not intended to constitute “nonqualified deferred compensation” within the meaning of Code Section 409A, but rather is intended to be exempt from the application of Code Section 409A. To the extent that this Option is nevertheless deemed to be subject to Code Section 409A for any reason, this Option shall be interpreted in accordance with Code Section 409A and U.S. Department of Treasury regulations and other interpretive guidance issued thereunder, including without limitation any such regulations or other guidance that may be issued after the Grant Date. Notwithstanding any provision herein to the contrary, in the event that following the Grant Date, the Committee (as defined in the Plan) determines that this Option may be or become subject to Code Section 409A, the Committee may adopt such amendments to the Plan and/or this Option or adopt other policies and procedures (including amendments, policies and procedures with retroactive effect), or take any other actions, that the Committee determines are necessary or appropriate to (a) exempt the Plan and/or this Option from the application of Code Section 409A and/or preserve the intended tax treatment of the benefits provided with respect to this Option, or (b) comply with the requirements of Code Section 409A; provided, however, that this paragraph shall not create an obligation on the part of the Committee to adopt any such amendment, policy or procedure or take any such other action.

XVI. By electing to accept this Option, you acknowledge receipt of this Option and hereby confirm your understanding that the terms set forth in this Option constitute, subject to the terms of the Plan, which terms shall control in the event of any conflict between the Plan and this Option, the entire agreement and understanding of the parties with respect to the matters contained herein and supersede any and all prior agreements, arrangements and understandings, both oral and written, between the parties concerning the subject matter of this Option. The Company may, in its sole discretion, decide to deliver any documents related to current or future participation in the Plan (including this Agreement) by electronic means. You hereby consent to receive such documents by electronic delivery and agree to participate in the Plan through an on-line or electronic system established and maintained by the Company or another third party designated by the Company.

XVII. The Company reserves the right to impose other requirements on your participation in the Plan, on this Option and on any Shares acquired under the Plan, to the extent the Company determines it is necessary or advisable for legal or administrative reasons, and to require you to sign any additional agreements or undertakings that may be necessary to accomplish the foregoing.

XVIII. This Option and all compensation payable with respect to it shall be subject to recovery by the Company pursuant to any and all of the Company's policies with respect to the recovery of compensation, as they shall be in effect and may be amended from time to time, to the maximum extent permitted by applicable law.

XIX. You acknowledge that a waiver by the Company of breach of any provision of this Option shall not operate or be construed as a waiver of any other provision of this Option, or of any subsequent breach by you or any other grantee.

Very truly yours,

AMGEN INC.

By _____
Duly authorized on behalf
of the Board of Directors

APPENDIX A**ADDITIONAL TERMS AND CONDITIONS OF THE
AMENDED AND RESTATED
AMGEN INC. 2009 EQUITY INCENTIVE PLAN,
AS AMENDED AND/OR RESTATED FROM TIME TO TIME****GRANT OF STOCK OPTION
(BY COUNTRY)**

Certain capitalized terms used but not defined in this Appendix A shall have the meanings set forth in the Plan and/or the Agreement to which this Appendix is attached.

TERMS AND CONDITIONS

This Appendix includes additional terms and conditions that govern any Options granted under the Plan if, under applicable law, you are a resident of, are deemed to be a resident of or are working in one of the countries listed below. Furthermore, the additional terms and conditions that govern any Options granted hereunder may apply to you if you transfer employment and/or residency to one of the countries listed below and the Company shall, in its discretion, determine to what extent the terms and conditions contained herein shall apply to you.

NOTIFICATIONS

This Appendix also includes notifications relating to exchange control and other issues of which you should be aware with respect to your participation in the Plan. The information is based on the exchange control, securities and other laws in effect in the countries to which this Appendix refers as of October 2017. Such laws are often complex and change frequently. As a result, the Company strongly recommends that you not rely on the notifications herein as the only source of information relating to the consequences of your participation in the Plan because the information may be outdated when you exercise the Options and acquire Shares under the Plan, or when you subsequently sell Shares acquired under the Plan.

In addition, the notifications are general in nature and may not apply to your particular situation, and the Company is not in a position to assure you of any particular result. Accordingly, you should seek appropriate professional advice as to how the relevant laws in your country may apply to your situation. Finally, if you are a citizen or resident of a country other than the one in which you are currently residing and/or working or are considered a resident of another country for local law purposes, the information contained herein may not be applicable to you or you may be subject to the provisions of one or more jurisdictions.

ALL NON-U.S. JURISDICTIONS***TERMS AND CONDITIONS***

Method of Exercise. The following provision replaces Section II(3):

To the extent permitted by applicable statutes and regulations, payment of the exercise price per Share is due in full in cash or check upon exercise of all or any part of this Option which has become exercisable by you. Due to legal restrictions outside the U.S., you are not permitted to pay the exercise price by delivery of already-owned Shares of a value equal to the exercise price of the Shares for which this Option is being exercised. Furthermore, payment may not be made by a combination of cash and already-owned Common Stock.

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NOTIFICATIONS

Insider Trading Restrictions/Market Abuse Laws. You may be subject to insider trading restrictions and/or market abuse laws based on the exchange on which the Shares are listed and in applicable jurisdictions including the United States and your country or your broker's country, if different, which may affect your ability to accept, acquire, sell or otherwise dispose of Shares, rights to Shares (*e.g.*, Options) or rights linked to the value of Shares during such times as you are considered to have "inside information" regarding the Company (as defined by the laws in applicable jurisdictions). Local insider trading laws and regulations may prohibit the cancellation or amendment of orders you place before you possessed inside information. Furthermore you could be prohibited from (i) disclosing the inside information to any third party, which may include fellow employees (other than on a "need to know" basis) and (ii) "tipping" third parties or causing them otherwise to buy or sell securities. Any restrictions under these laws or regulations are separate from and in addition to any restrictions that may be imposed under any applicable Company insider trading policy. You are responsible for ensuring your compliance with any applicable restrictions and you should speak with your personal legal advisor on this matter.

Foreign Asset/Account, Tax Reporting Information. Your country of residence may have certain foreign asset and/or account reporting requirements which may affect your ability to acquire or hold Shares under the Plan or cash received from participating in the Plan (including from any dividends received, or sale proceeds arising from the sale of Shares) in a brokerage or bank account outside of your country. You may be required to report such accounts, assets or transactions to the tax or other authorities in your country. You are responsible for ensuring your compliance with such regulations, and you should speak with your personal legal advisor on this matter.

ARGENTINA**TERMS AND CONDITIONS**

Labor Law Acknowledgement. The following provision supplements Section XII of the Agreement:

In accepting this Option, you acknowledge, understand and agree that the grant of the Option is made by the Company (not the Employer) in its sole discretion and that the value of the Option or any Shares acquired under the Plan shall not constitute salary or wages for any purpose under Argentine labor law including, but not limited to, the calculation of (i) any labor benefits including, without limitation, vacation pay, thirteenth salary, compensation in lieu of notice, annual bonus, disability, and leave of absence payments, etc., or (ii) any termination or severance indemnities or similar payments.

NOTIFICATIONS

Securities Law Information. Neither the Option nor the underlying Shares are publicly offered or listed on any stock exchange in Argentina. The offer is private and not subject to the supervision of any Argentine governmental authority.

Exchange Control Information. Exchange control regulations in Argentina are subject to frequent change. You should consult with your personal legal advisor regarding any exchange control obligations that you may have prior to receiving proceeds from the sale of Shares or dividends. You must comply with any and all Argentine currency exchange restrictions, approvals and reporting requirements in connection with your participation in the Plan.

AUSTRALIA**NOTIFICATIONS**

Securities Law Information. If you acquire Shares under the Plan and offer the Shares for sale to a person or entity resident in Australia, the offer may be subject to disclosure requirements under Australian law. You should consult with your own legal advisor before making any such offer in Australia.

Tax Information. Subdivision 83A-C of the Income Tax Assessment Act 1997 (Cth) applies to the Options granted under the Plan, such that the Options are intended to be subject to deferred taxation.

Exchange Control Information. If you are an Australian resident, exchange control reporting is required for cash transactions exceeding AUD10,000 and for international fund transfers. If an Australian bank is assisting with the transaction, the bank will file the report on your behalf. If there is no Australian bank involved in the transfer, you will be required to file the report.

AUSTRIA

NOTIFICATIONS

Exchange Control Information. If you are an Austrian resident and you hold Shares acquired under the Plan outside of Austria, you must submit a report to the Austrian National Bank. An exemption applies if the value of the Shares as of any given quarter does not meet or exceed €30,000,000 or if the value of the Shares in any given year as of December 31 does not meet or exceed €5,000,000. If the former threshold is exceeded, quarterly obligations are imposed, whereas if the latter threshold is exceeded, annual reports must be given. The quarterly reporting date is as of the last day of the respective quarter and the deadline for filing the quarterly report is the 15th day of the month following the end of the respective quarter. The annual reporting date is December 31 and the deadline for filing the annual report is January 31 of the following year.

A separate reporting requirement applies when you sell Shares acquired under the Plan or receive a cash dividend paid on such Shares. In that case, there may be exchange control obligations if the cash proceeds are held outside of Austria. If the transaction volume of all cash accounts abroad meets or exceeds €10,000,000, the movements and balances of all accounts must be reported monthly, as of the last day of the month, on or before the 15th day of the following month, on the prescribed form (*Meldungen SI-Forderungen und/oder SI-Verpflichtungen*).

BELGIUM

NOTIFICATIONS

Taxation of the Option. Your tax consequences will vary depending on when you accept the Option. If you accept the Option in writing within 60 days of the offer date, you will be subject to taxation on the offer date. If you accept the Option more than 60 days after the offer date, you will be subject to taxation at exercise. Please refer to the additional materials that will be delivered to you for a more detailed description of the tax consequences of accepting the Option. You should consult your personal tax advisor prior to accepting the Option.

Tax Reporting; Foreign Asset/Account Reporting Information. If you are a Belgian resident, you are required to report any taxable income attributable to the Option granted hereunder on your annual tax return. You are also required to report any securities (*e.g.*, Shares acquired under the Plan) held and bank accounts (including brokerage accounts) opened and maintained outside of Belgium on your annual tax return. In a separate report, you are required to provide the National Bank of Belgium with the account details of any such foreign accounts (including the account number, bank name and country in which such account was opened). This report, as well as information on how to complete it, can be found on the website of the National Bank of Belgium, www.nbb.be, under the *Kredietcentrales / Centrales des crédits* caption.

BRAZIL

TERMS AND CONDITIONS

Compliance with Law. By accepting the Option, you acknowledge that you agree to comply with applicable Brazilian laws and pay any and all applicable taxes associated with the exercise of the Option, the sale of Shares acquired under the Plan and the payment of dividends on such Shares.

Nature of Grant. This provision supplements Section XII of the Agreement:

In accepting this Option, you acknowledge (i) that you are making an investment decision, (ii) that the Options will be exercisable by you only if the vesting conditions are met and any necessary services are rendered by you during the vesting period set forth in the Vesting Schedule, and (iii) that the value of the underlying Shares is not fixed and may increase or decrease in value over the vesting period without compensation to you.

NOTIFICATIONS

Exchange Control Information. If you are resident or domiciled in Brazil, you will be required to submit annually a declaration of assets and rights held outside of Brazil to the Central Bank of Brazil if the aggregate value of such assets and rights equals or exceeds US\$100,000. If such amount exceeds US\$100,000,000, the referenced declaration must be submitted quarterly. Assets and rights that must be reported include the following: (i) bank deposits; (ii) loans; (iii) financing transactions; (iv) leases; (v) direct investments; (vi) portfolio investments, including Shares acquired under the Plan; (vii) financial derivatives investments; and (viii) other investments, such as real estate. Please note that foreign individuals holding Brazilian visas are considered Brazilian residents for purposes of this reporting requirement and must declare at least the assets held abroad that were acquired subsequent to the date of admittance as a resident of Brazil. Individuals holding assets and rights outside of Brazil valued at less than US\$100,000 are not required to submit a declaration.

BULGARIA

NOTIFICATIONS

Exchange Control Information. If funds are remitted to purchase Shares abroad, a declaration of the purpose of the remittance must be provided to the local bank that is transferring the funds. If the funds are remitted to a bank outside the European Union and the amount exceeds BGN 30,000, documentation evidencing the underlying transaction (for instance a copy of the option agreement) must be provided.

Foreign Asset/Account Reporting Information. You will be required to annually file statistical forms with the Bulgarian National Bank regarding your receivables in bank accounts abroad as well as your securities abroad (*e.g.*, Shares acquired under the Plan) if the total sum of all such receivables and securities equals or exceeds BGN 50,000 as of the previous calendar year-end. The reports are due by March 31. You should contact your bank in Bulgaria for additional information regarding this requirement.

CANADA

TERMS AND CONDITIONS

Form of Payment. Due to legal restrictions in Canada, you are prohibited from surrendering Shares that you already own to pay the exercise price or any Tax Obligations in connection with the Option.

Termination of Employment. Section IV(B)(1) of the Agreement is amended to read as follows:

(1) “termination of your employment” shall mean the last date you are either an active employee of the Company or an Affiliate or actively engaged as Director to the Company or an Affiliate; in the event of involuntary termination of your employment (regardless of the reason for such termination and whether or not later found to be invalid or in breach of employment laws in the jurisdiction where you are employed or the terms of your employment agreement, if any), your right to receive the Option and vest under the Plan, if any, will terminate effective as of the date that is the earlier of: (1) the date you receive notice of termination of employment from the Company or your Employer, or (2) the date you are no longer actively employed by the Company or your Employer regardless of any notice period or period of pay in lieu of such notice required under local law (including, but not limited to statutory law, regulatory law and/or common law). Your right, if any, to acquire Shares pursuant to the Option after termination of employment will be

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measured by the date of termination of your active employment and will not be extended by any notice period mandated under local law.

The following provisions will apply to you if you are a resident of Quebec:

Language Consent. The parties acknowledge that it is their express wish that this Agreement, as well as all documents, notices, and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English.

Les parties reconnaissent avoir exigé la rédaction en anglais de cette convention (« Agreement »), ainsi que de tous documents, avis et procédures judiciaires, exécutés, donnés ou intentés en vertu de, ou liés directement ou indirectement à, la présente convention.

Data Privacy Notice. This provision supplements Section IX of the Agreement:

You hereby authorize the Company and the Company's representative to discuss with and obtain all relevant information from all personnel (professional or not) involved in the administration and operation of the Plan. You further authorize the Company and your Employer to disclose and discuss your participation in the Plan with their advisors. You also authorize the Company and your Employer to record such information and keep it in your employee file.

NOTIFICATIONS

Securities Law Information. You are permitted to sell Shares acquired through the Plan through the designated broker appointed under the Plan, if any, provided that the resale of such Shares takes place outside of Canada through the facilities of a stock exchange on which the Shares are listed (e.g., the NASDAQ Global Select Market).

Foreign Asset/Account Reporting Information. Specified foreign property, including Shares, Options and other rights to receive Shares of a non-Canadian company held by a Canadian resident employee generally must be reported annually on a Form T1135 (Foreign Income Verification Statement) if the total cost of the employee's specified foreign property exceeds C\$100,000 at any time during the year. Thus, such Options must be reported – generally at nil cost – if the C\$100,000 cost threshold is exceeded because other specified foreign property is held by the employee. When Shares are acquired, their cost generally is the adjusted cost base ("ACB") of the Shares. The ACB ordinarily would equal the fair market value of the Shares at the time of acquisition, but if the employee owns other shares of the same company, this ACB may have to be averaged with the ACB of the other shares.

CHINA

TERMS AND CONDITIONS

The following terms apply only to nationals of the People's Republic of China (the "PRC") residing in the PRC:

Method of Exercise. Due to legal restrictions in the PRC, you will be required to pay the exercise price for any Shares subject to the Option granted hereunder by a cashless sell-all exercise, such that all Shares will be sold immediately upon exercise and the cash proceeds of sale, less the exercise price, any Tax Obligations and broker's fees or commissions, will be remitted to you. The Company reserves the right to provide additional methods of exercise depending on local developments.

Exchange Control Requirements. You understand and agree that, pursuant to PRC exchange control requirements, you will be required to repatriate the cash proceeds from the sale of the Shares issued upon the exercise of the Option to China. You further understand that, under applicable laws, such repatriation of your cash proceeds will need to be effectuated through a special exchange control account established by the Company or any Affiliate, including your Employer, and you hereby consent and agree that any proceeds from the sale of the Shares may be transferred to such special account prior to being delivered to you. You also understand that the Company will deliver the proceeds to you as soon as possible, but that there may be delays in distributing the funds to you due to exchange control requirements

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in China. Proceeds may be paid to you in U.S. dollars or local currency at the Company's discretion. If the proceeds are paid to you in U.S. dollars, you will be required to set up a U.S. dollar bank account in China so that the proceeds may be deposited into this account. If the proceeds are paid to you in local currency, the Company is under no obligation to secure any particular currency conversion rate and the Company may face delays in converting the proceeds to local currency due to exchange control restrictions. You agree to bear any currency fluctuation risk between the date the Option is exercised and the time that (i) the Tax Obligations are converted to local currency and remitted to the tax authorities, and (ii) net proceeds are converted to local currency and distributed to you. You acknowledge that neither the Company nor any Affiliate will be held liable for any delay in delivering the proceeds to you. You agree to sign any agreements, forms and/or consents that may be requested by the Company or the Company's designated broker to effectuate any of the remittances, transfers, conversions or other processes affecting the proceeds. You further agree to comply with any other requirements that may be imposed by the Company in the future in order to facilitate compliance with exchange control requirements in China.

COLOMBIA

NOTIFICATIONS

Securities Law Information. The Shares are not and will not be registered with the Colombian registry of publicly traded securities (*Registro Nacional de Valores y Emisores*) and therefore the Shares may not be offered to the public in Colombia. Nothing in this document should be construed as the making of a public offer of securities in Colombia.

Exchange Control Information. Investment in assets located abroad (such as Shares acquired under the Plan) does not require prior approval from the Central Bank (*Banco de la República*). Nonetheless, such investments are subject to exchange control regulations. If you are a Colombian resident and the value of your aggregate investments held abroad (including Shares) equals or exceeds US\$500,000 as of December 31 of the applicable calendar year, these investments must be registered with the Central Bank. Upon the sale or other disposition of investments (including Shares and dividends) which have been registered with the Central Bank, the registration with the Central Bank must be cancelled no later than March 31 of the year following the year of the sale or disposition (or a fine of up to 200% of the value of the infringing payment will apply). When investments held abroad are sold or otherwise disposed of, regardless of whether they have been registered with the Central Bank, Colombian residents must repatriate the proceeds to Colombia by selling currency to a Colombian bank and filing the appropriate form.

CROATIA

NOTIFICATIONS

Exchange Control Information. Croatian residents may be required to report any foreign investments (including Shares acquired under the Plan) to the Croatian National Bank for statistical purposes. You should be aware that exchange control regulations in Croatia are subject to frequent change and you are solely responsible for ensuring your continued compliance with current Croatian exchange control laws.

CZECH REPUBLIC

NOTIFICATIONS

Foreign Asset/Account Reporting Information. Proceeds from the sale of Shares and any dividends paid on such Shares may be held in a cash account abroad and you are no longer required to report the opening and maintenance of a foreign account to the Czech National Bank (the "CNB"), unless the CNB notifies you specifically that such reporting is required. Upon request of the CNB, you may need to file a notification within fifteen (15) days of the end of the calendar quarter in which you acquire Shares.

DENMARK**TERMS AND CONDITIONS**

Danish Stock Option Act. In accepting this Option, you acknowledge that you have received an Employer Statement translated into Danish, which is being provided to comply with the Danish Stock Option Act. To the extent more favorable to you and required to comply with the Stock Option Act, the terms set forth in the Employer Statement will apply to your participation in the Plan.

NOTIFICATIONS

Exchange Control Information. If you establish an account holding Shares or an account holding cash outside of Denmark, you must report the account to the Danish tax authorities. The form which should be used in this respect can be obtained from a local bank. (These obligations are separate from and in addition to the obligations described below.)

Securities/Tax Reporting Information. If you hold Shares acquired under the Plan in a brokerage account with a broker or bank (the “depository”) outside of Denmark, you are required to inform the Danish tax authorities about the account by signing and filing a Form V (*Erklaering V*). It is only necessary to submit a Form V the first time securities are deposited with a depository outside of Denmark. However, if the securities are transferred to a different depository or if you begin using a new depository, a new Form V will be required.

The depository may sign a statement according to which the depository undertakes an obligation, without further request, to forward certain information concerning the Shares on an annual basis to the Danish tax authorities. However, if the depository does not agree to sign such a statement, you will be personally responsible for submitting the required information as an attachment to your annual income tax return. By signing the Form V, you authorize the Danish tax authorities to examine the account. Generally, the Form V must be submitted by the depository no later than on February 1 of the year following the calendar year to which the information relates. However, if you are responsible for submitting the required information, you must submit it as an attachment to your annual income tax return. A sample of Form V can be found at the following website: www.skat.dk.

In addition, if you open a brokerage or bank account with a U.S. bank, the account will be treated as a “deposit account” because cash can be held in the account. Therefore, you also must file a Form K (*Erklaering K*) with the Danish tax authorities. By signing the Form K, you authorize the Danish tax authorities to examine the account. A separate form must be submitted for each account held outside of Denmark that holds Shares or cash which are taxable in Denmark. A sample of Form K can be found at the following website: www.skat.dk.

If you exercise the Option by means of the cashless method of exercise, you are not required to file a Form V because you will not hold any Shares. However, if you open a deposit account with a foreign broker or bank to hold the cash proceeds, you are required to file a Form K as described above.

EGYPT**NOTIFICATIONS**

Exchange Control Information. If you transfer funds into or out of Egypt in connection with the exercise of the Option, you are required to transfer the funds through a registered bank in Egypt.

FINLAND

There are no country-specific provisions.

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FRANCE**TERMS AND CONDITIONS**

Language Consent. By accepting the grant, you confirm having read and understood the Plan and Agreement which were provided in the English language. You accept the terms of these documents accordingly.

Consentement Relatif à la Langue Utilisée. En acceptant l'attribution, vous confirmez avoir lu et compris le Plan et le Contrat, qui ont été communiqués en langue anglaise. Vous acceptez les termes de ces documents en connaissance de cause.

NOTIFICATIONS

Foreign Asset/Account Reporting Information. French residents and non-residents must declare to the Customs Authorities the cash and securities they import or export without the use of a financial institution when the value of such cash or securities exceeds €10,000. French residents also must report all foreign bank and brokerage accounts on an annual basis (including accounts opened or closed during the tax year) on a specific form together with the income tax return. Failure to comply could trigger significant penalties.

GERMANY**NOTIFICATIONS**

Exchange Control Information. Cross-border payments in excess of €12,500 must be reported monthly to the German Federal Bank (*Bundesbank*). In case of payments in connection with securities (including proceeds realized upon the sale of Shares or the receipt of dividends), the report must be made by the 5th day of the month following the month in which the payment was received and must be filed electronically. The form of report (*Allgemeines Meldeportal Statistik*) can be accessed via the *Bundesbank's* website (www.bundesbank.de) and is available in both German and English. You are responsible for satisfying any applicable reporting obligation.

GREECE**NOTIFICATIONS**

Exchange Control Information. If you exercise the Option through a cash exercise, withdraw funds from a bank in Greece and remit those funds out of Greece (in an amount exceeding €50,000), you may be required to submit a written application to the bank. The application will likely need to contain the following information: (i) amount and currency to be remitted; (ii) account to be debited; (iii) name and contact information of the beneficiary (the person or corporation to whom the funds are to be remitted); (iv) bank of the beneficiary with address and code number; (v) account number of the beneficiary; (vi) details of the payment such as the purpose of the transaction (*e.g.*, exercise of Option); and (vii) expenses of the transaction.

If you exercise the Option by way of a cashless method of exercise as described in Section II(2)(ii) of the Agreement, this application will not be required because no funds will be remitted out of Greece.

HONG KONG**TERMS AND CONDITIONS**

Sale of Shares. Shares received at exercise are accepted as a personal investment. In the event that Shares are issued in respect of the Options within six (6) months of the Grant Date, you agree that you will not offer to the public or otherwise dispose of the Shares prior to the six (6)-month anniversary of the Grant Date.

NOTIFICATIONS

SECURITIES WARNING: *The contents of this document have not been reviewed by any regulatory authority in Hong Kong. You should exercise caution in relation to the offer. If you are in doubt about any of the contents of the Agreement, including this Appendix, or the Plan, you should obtain independent professional advice. The Option and any Shares issued in respect of the Option do not constitute a public offering of securities under Hong Kong law and are available only to members of the Board and Employees. The Agreement, including this Appendix, the Plan and other incidental communication materials have not been prepared in accordance with and are not intended to constitute a “prospectus” for a public offering of securities under the applicable securities legislation in Hong Kong. The Option and any documentation related thereto are intended solely for the personal use of each member of the Board and/or Employee and may not be distributed to any other person.*

HUNGARY

There are no country-specific provisions.

ICELAND**TERMS AND CONDITIONS**

Method of Exercise. Due to legal restrictions in Iceland, you will be required to pay the exercise price for any Shares subject to the Option granted hereunder by a cashless sell-all exercise, such that all Shares will be sold immediately upon exercise and the cash proceeds of sale, less the exercise price, any Tax Obligations and broker’s fees or commissions, will be remitted to you. The Company reserves the right to provide additional methods of exercise depending on local developments.

NOTIFICATIONS

Exchange Control Information. Approval by the Central Bank of Iceland is no longer required to participate in the Plan, regardless of the value of the Shares acquired under the Plan. Despite the recent relaxation of the exchange control requirements, you should consult with your personal advisor to ensure compliance with applicable exchange control regulations in Iceland as such regulations are subject to frequent change. You are responsible for ensuring compliance with all exchange control laws in Iceland.

INDIA**TERMS AND CONDITIONS**

Method of Exercise. Due to legal restrictions in India, you will not be permitted to pay the exercise price for Shares subject to the Option granted hereunder by a cashless “sell-to-cover” procedure, under which method a number of Shares with a value sufficient to cover the exercise price, brokerage fees and any applicable Tax Obligations would be sold upon exercise and you would receive only the remaining Shares subject to the exercised Option. The Company reserves the right to permit this procedure for payment of the exercise price in the future, depending on the development of local law.

NOTIFICATIONS

Exchange Control Information. If you remit funds out of India to purchase Shares at exercise of the Option granted hereunder, you are responsible for complying with applicable exchange control regulations. In particular, it will be your obligation to determine whether approval from the Reserve Bank of India is required prior to exercise or whether you have exhausted the investment limit of US\$250,000 for the relevant fiscal year.

You understand that you must repatriate any cash dividends paid on Shares acquired under the Plan to India within one hundred and eighty (180) days of receipt, and any proceeds from the sale of Shares acquired under the Plan within

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ninety (90) days of receipt, or such other period of time as may be required under applicable regulations. You will receive a foreign inward remittance certificate (“FIRC”) from the bank where you deposit the foreign currency, and you must maintain the FIRC as proof of repatriation of funds in the event that the Reserve Bank of India or the Employer requests proof of repatriation. It is your responsibility to comply with these requirements.

Foreign Asset/Account Reporting Information. You are required to declare foreign bank accounts and any foreign financial assets (including Shares held outside of India) in your annual tax return. It is your responsibility to comply with this reporting obligation and you should consult your personal tax advisor in this regard.

IRELAND

TERMS AND CONDITIONS

Nature of Grant. This provision supplements Section XII of the Agreement:

In accepting this Option, you acknowledge that the benefits received under the Plan will not be taken into account for any redundancy or unfair dismissal claim.

ITALY

TERMS AND CONDITIONS

Method of Exercise. Due to legal restrictions in Italy, you will be required to pay the exercise price for any Shares subject to the Option granted hereunder by a cashless sell-all exercise, such that all Shares will be sold immediately upon exercise and the cash proceeds of sale, less the exercise price, any Tax Obligations and broker’s fees or commissions, will be remitted to you. The Company reserves the right to provide additional methods of exercise depending on local developments.

Data Privacy Notice. The following provision replaces Section IX of the Agreement:

Pursuant to Section 13 of Legislative Decree no. 196/2003, you understand that your Employer, the Company and any Affiliate may hold certain personal information about you, including, but not limited to, your name, home address and telephone number, email address, date of birth, social insurance (to the extent permitted under Italian law), passport or other identification number, salary, nationality, job title/work history/service periods, residency status, citizenship, tax withholding and payroll data, any shares or directorships held in the Company or any Affiliate, details of all Awards granted, or any other entitlement to Shares awarded, cancelled, exercised, vested, unvested or outstanding in your favor, for the exclusive purpose of implementing, managing and administering the Plan (“Data”).

You also understand that providing the Company with Data is necessary for the performance of the Plan, which represents the legal basis for the collection, use, processing and transfer of the Data, and that your refusal to provide such Data would make it impossible for the Company to perform its contractual obligations and may affect your ability to participate in the Plan. The Controller of personal data processing is Amgen Inc., with registered offices at One Amgen Center Drive, Thousand Oaks, California 91320, U.S.A., and, pursuant to Legislative Decree no. 196/2003, its Representative in Italy for privacy purposes is Amgen S.r.L., with registered offices at Via Tazzoli, 6 – 20154 Milan, Italy.

You understand that Data will not be publicized, but it may be transferred to banks, other financial institutions, or brokers involved in the management and administration of the Plan. You understand that Data may also be transferred to the independent registered public accounting firm engaged by the Company. You further understand that the Company and/or any Affiliate will transfer Data among themselves as necessary for the purpose of implementing, administering and managing your participation in the Plan, and that the Company and/or any Affiliate may each further transfer Data to third parties assisting the Company in the implementation, administration, and management of the Plan, including any requisite transfer of Data to a broker or other third party with whom you may elect to deposit any Shares acquired at exercise of the Option. Such recipients may receive, possess, use, retain,

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and transfer Data in electronic or other form, for the purposes of implementing, administering, and managing your participation in the Plan. You understand that these recipients may be located in or outside of the European Economic Area, such as in the United States or elsewhere. Should the Company exercise its discretion in suspending all necessary legal obligations connected with the management and administration of the Plan, it will delete Data as soon as it has completed all the necessary legal obligations connected with the management and administration of the Plan.

You understand that Data processing related to the purposes specified above shall take place under automated or non-automated conditions, anonymously when possible, that comply with the purposes for which Data is collected and with confidentiality and security provisions, as set forth by applicable laws and regulations, with specific reference to Legislative Decree no. 196/2003.

The processing activity, including communication, the transfer of Data abroad, including outside of the European Economic Area, as herein specified and pursuant to applicable laws and regulations, does not require your consent thereto, as the processing is necessary to performance of contractual obligations related to implementation, administration, and management of the Plan. You understand that, pursuant to Section 7 of the Legislative Decree no. 196/2003, you have the right to, including but not limited to, access, delete, update, correct, or terminate, for legitimate reason, the Data processing. You also understand that you have the right to data portability and to lodge a complaint with the Italian supervisory authority.

Furthermore, you are aware that Data will not be used for direct-marketing purposes. In addition, Data provided can be reviewed and questions or complaints can be addressed by contacting your local human resources representative.

Nature of Grant. In accepting this Option, you acknowledge that (1) you have received a copy of the Plan, the Agreement and this Appendix; (2) you have reviewed the applicable documents in their entirety and fully understand the contents thereof; and (3) you accept all provisions of the Plan, the Agreement and this Appendix.

For the Option granted, you further acknowledge that you have read and specifically and explicitly approve, without limitation, the following Sections of the Option Agreement: Section I, Section IV, Section V, Section IX (as replaced by the above notice), Section X, Section XII, Section XIII, Section XIV and Section XVII.

NOTIFICATIONS

Foreign Asset/Account Reporting Information. Italian residents who, at any time during the fiscal year, hold foreign financial assets (including cash and Shares) which may generate income taxable in Italy are required to report these assets on their annual tax returns (UNICO Form, RW Schedule) for the year during which the assets are held, or on a special form if no tax return is due. These reporting obligations will also apply to Italian residents who are the beneficial owners of foreign financial assets under Italian money laundering provisions.

Foreign Financial Assets Tax. The fair market value of any Shares held outside of Italy is subject to a foreign assets tax. The fair market value is considered to be the value of the Shares on the NASDAQ Global Select Market on December 31 of the applicable year in which you held the Shares (or when the Shares are acquired during the course of the year, the tax is levied in proportion to the actual days of holding over the calendar year). You should consult with your personal tax advisor about the foreign financial assets tax.

JAPAN

NOTIFICATIONS

Exchange Control Information. If you acquire Shares valued at more than ¥100,000,000 in a single transaction, you must file a Securities Acquisition Report with the Ministry of Finance through the Bank of Japan within 20 days of the purchase of the Shares.

In addition, if you pay more than ¥30,000,000 in a single transaction for the purchase of Shares when you exercise the Option, you must file a Payment Report with the Ministry of Finance through the Bank of Japan by the 20th day of the month following the month in which the payment was made. The precise reporting requirements vary depending on whether or not the relevant payment is made through a bank in Japan.

A Payment Report is required independently from a Securities Acquisition Report. Therefore, if the total amount that you pay upon a one-time transaction for exercising the Option and purchasing Shares exceeds ¥100,000,000, then you must file both a Payment Report and a Securities Acquisition Report.

Foreign Asset/Account Reporting Information. You will be required to report to the Japanese tax authorities details of any assets held outside of Japan as of December 31st (including any Shares acquired under the Plan) to the extent such assets have a total net fair market value exceeding ¥50,000,000. Such report will be due by March 15 each year. You should consult with your personal tax advisor as to whether the reporting obligation applies to you and whether you will be required to include in the report details of any outstanding Options, Shares or cash that you hold.

JORDAN

There are no country-specific provisions.

KOREA

NOTIFICATIONS

Foreign Asset/Account Reporting Information. You are required to declare all foreign financial accounts (*e.g.* non-Korean bank accounts, brokerage accounts holding Shares, etc.) to the Korean tax authority and file a report regarding such accounts if the monthly balance of such accounts exceeds KRW1,000,000,000 (or an equivalent amount in foreign currency) on any month-end date during a calendar year. It is your responsibility to comply with this reporting obligation and you should consult your personal tax advisor to ensure compliance with this requirement.

LATVIA

There are no country-specific provisions.

LEBANON

Securities Law Information. The Plan does not constitute the marketing or offering of securities in Lebanon pursuant to Law No. 161 (2011), the Capital Markets Law. Offerings under the Plan are being made only to eligible employees of the Employer, the Company or an Affiliate.

LITHUANIA

There are no country-specific provisions.

MEXICO

TERMS AND CONDITIONS

Acknowledgement of the Agreement. In accepting the Option granted hereunder, you acknowledge that you have received a copy of the Plan, have reviewed the Plan and the Option Agreement, including this Appendix, in their entirety and fully understand and accept all provisions of the Plan and the Agreement, including this Appendix. You further acknowledge that you have read and specifically and expressly approve the terms and conditions of Section XII of the Agreement, in which the following is clearly described and established:

- (1) Your participation in the Plan does not constitute an acquired right.

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- (2) The Plan and your participation in the Plan are offered by Amgen Inc. on a wholly discretionary basis.
- (3) Your participation in the Plan is voluntary.
- (4) Amgen Inc. and its Affiliates are not responsible for any decrease in the value of the Option granted and/or Shares issued under the Plan.

Labor Law Acknowledgement and Policy Statement. In accepting the Option granted hereunder, you expressly recognize that Amgen Inc., with registered offices at One Amgen Center Drive, Thousand Oaks, California 91320, U.S.A., is solely responsible for the administration of the Plan and that your participation in the Plan and acquisition of Shares do not constitute an employment relationship between you and Amgen Inc. since you are participating in the Plan on a wholly commercial basis and your sole employer is Amgen Mexico S.A. de C.V. ("Amgen-Mexico"). Based on the foregoing, you expressly recognize that the Plan and the benefits that you may derive from participation in the Plan do not establish any rights between you and your Employer, Amgen-Mexico, and do not form part of the employment conditions and/or benefits provided by Amgen-Mexico and any modification of the Plan or its termination shall not constitute a change or impairment of the terms and conditions of your employment.

You further understand that your participation in the Plan is as a result of a unilateral and discretionary decision of Amgen Inc.; therefore, Amgen Inc. reserves the absolute right to amend and/or discontinue your participation in the Plan at any time without any liability to you.

Finally, you hereby declare that you do not reserve to yourself any action or right to bring any claim against Amgen Inc. for any compensation or damages regarding any provision of the Plan or the benefits derived under the Plan, and you therefore grant a full and broad release to Amgen Inc., its Affiliates, shareholders, officers, agents or legal representatives with respect to any claim that may arise.

Spanish Translation

Reconocimiento del Otorgamiento. Al aceptar cualquier Opción bajo el presente documento, usted reconoce que ha recibido una copia del Plan, que ha revisado el mismo en su totalidad, así como también el Acuerdo de Opción, incluyendo este Apéndice, además que comprende y está de acuerdo con todas las disposiciones tanto del Plan y del Opción, incluyendo este Apéndice. Asimismo, usted reconoce que ha leído y manifiesta específicamente y expresamente la conformidad con los términos y condiciones establecidos en la Sección XII del Acuerdo de Opción, en los que se establece y describe claramente que:

- (1) Su participación en el Plan de ninguna manera constituye un derecho adquirido.
- (2) El Plan y su participación en el mismo son ofrecidos por Amgen Inc. de forma completamente discrecional.
- (3) Su participación en el Plan es voluntaria.
- (4) Amgen Inc. y sus Afiliados no son responsables de ninguna disminución en el valor de la opción otorgada y/o de las Acciones Comunes emitidas mediante el Plan.

Reconocimiento de la Ley Laboral y Declaración de Política. Al aceptar cualquier Opción bajo el presente, usted reconoce expresamente que Amgen Inc., con oficinas registradas localizadas en One Amgen Center Drive, Thousand Oaks, California 91320, U.S.A., es la única responsable de la administración del Plan y que su participación en el mismo y la adquisición de Acciones Comunes no constituyen de ninguna manera una relación laboral entre usted y Amgen Inc., debido a que su participación en el Plan es únicamente una relación comercial y que su único empleador es Amgen Mexico S.A. de C.V. ("Amgen-México"). Derivado de lo anterior, usted reconoce expresamente que el Plan y los beneficios a su favor que pudieran derivar de la participación en el mismo, no establecen ningún derecho entre usted y su empleador, Amgen – México, y no forman parte de las condiciones laborales y/o los beneficios otorgados

por Amgen – México, y cualquier modificación del Plan o la terminación del mismo no constituirá un cambio o desmejora de los términos y condiciones de su trabajo.

Asimismo, usted entiende que su participación en el Plan es resultado de la decisión unilateral y discrecional de Amgen Inc., por lo tanto, Amgen Inc. se reserva el derecho absoluto de modificar y/o discontinuar su participación en el Plan en cualquier momento y sin ninguna responsabilidad para usted.

Finalmente, usted manifiesta que no se reserva ninguna acción o derecho que origine una demanda en contra de Amgen Inc., por cualquier compensación o daños y perjuicios, en relación con cualquier disposición del Plan o de los beneficios derivados del mismo, y en consecuencia usted exime amplia y completamente a Amgen Inc. de toda responsabilidad, como así también a sus Afiliadas, accionistas, directores, agentes o representantes legales con respecto a cualquier demanda que pudiera surgir.

NETHERLANDS

NOTIFICATIONS

Securities Law Information.

**Attention! This investment falls outside AFM supervision.
No prospectus required for this activity.**



NORWAY

There are no country-specific provisions.

POLAND

NOTIFICATIONS

Exchange Control Information. Polish residents holding foreign securities (including Shares) and maintaining accounts abroad must file reports with the National Bank of Poland if the aggregate value of Shares and cash held in such foreign accounts exceeds PLN 7,000,000. If required, the reports are due on a quarterly basis by the 20th day following the end of each quarter and must be filed on special forms available on the website of the National Bank of Poland. In addition, Polish residents are required to transfer funds through a bank account in Poland if the transferred amount in any single transaction exceeds a specified threshold (currently €15,000 (or PLN 15,000 if such transfer of funds is associated with the business activity of a consultant)). You must store all documents connected with any foreign exchange transactions you engage in for a period of five (5) years from the end of the year when such transactions were made. Penalties may apply for failure to comply with exchange control requirements.

PORTUGAL

TERMS AND CONDITIONS

Consent to Receive Information in English. You hereby expressly declare that you have full knowledge of the English language and have read, understood and fully accepted and agreed with the terms and conditions established in the Plan and Agreement.

Conhecimento da Língua. *Por meio do presente, eu declaro expressamente que tem pleno conhecimento da língua inglesa e que li, compreendi e livremente aceitei e concordei com os termos e condições estabelecidas no Plano e no Acordo.*

PUERTO RICO

There are no country-specific provisions.

ROMANIA***NOTIFICATIONS***

Exchange Control Information. Any transfer of funds exceeding €15,000 (whether via one transaction or several transactions that appear to be linked to each other) must be reported to the National Office for Prevention and Control of Money Laundering on specific forms by the relevant bank or financial institution. If you deposit proceeds from the sale of Shares or the receipt of dividends in a bank account in Romania, you may be required to provide the Romanian bank assisting with the transaction with appropriate documentation explaining the source of the income. You should consult with a legal advisor to determine whether you will be required to submit such documentation to the Romanian bank.

RUSSIA***TERMS AND CONDITIONS***

Method of Exercise. Due to legal restrictions in Russia, you will be required to pay the exercise price for any Shares subject to the Option granted hereunder by a cashless sell-all exercise, such that all Shares will be sold immediately upon exercise and the cash proceeds of sale, less the exercise price, any Tax Obligations and broker's fees or commissions, will be remitted to you. The Company reserves the right to provide additional methods of exercise depending on local developments.

Exchange Control Requirements. You understand and agree that, pursuant to Russian exchange control requirements, you will be required to repatriate to Russia the cash proceeds from the sale of the Shares issued to you upon exercise of the Option, unless such proceeds will be paid into and held in your brokerage account in the U.S., for example, for reinvestment purposes. As of January 1, 2018, cash proceeds from the sale of shares listed on one of the foreign stock exchanges on the list provided for by the Russian Federal law "On the Securities Market" (such as Shares acquired under the Plan) can also be paid directly to a foreign bank or brokerage account opened with a bank located in an Organisation for Economic Co-operation and Development ("OECD") or Financial Action Task Force ("FATF") country. Other statutory exceptions may apply, and you should consult with your personal legal advisory in this regard.

You agree to comply with any other requirements that may be imposed by the Company in the future in order to facilitate compliance with exchange control requirements in Russia.

Securities Law Requirements. The Option granted hereunder, the Agreement, including this Appendix, the Plan and all other materials you may receive regarding your participation in the Plan or the Option granted hereunder do not constitute advertising or an offering of securities in Russia. The issuance of Shares under the Plan has not and will not be registered in Russia; therefore, Shares may not be offered or placed in public circulation in Russia.

In no event will Shares acquired under the Plan be delivered to you in Russia; all Shares will be maintained on your behalf in the United States.

You are not permitted to sell any Shares acquired under the Plan directly to a Russian legal entity or resident.

Data Privacy Notice. The following provision supplements Section IX of the Agreement:

You understand and agree that you must complete and return a Consent to Processing of Personal Data (the "Consent") form to the Company. Further, you understand and agree that if you do not complete and return a Consent form to the Company, the Company will not be able to administer or maintain the Option. Therefore, you understand that refusing to complete a Consent form or withdrawing your consent may affect your ability to participate in the Plan.

NOTIFICATIONS

Foreign Asset/Account Reporting Information. Russian residents are required to notify Russian tax authorities within one (1) month of opening, closing or changing the details of a foreign account. Russian residents also are required to report (i) the beginning and ending balances in such a foreign bank account each year and (ii) transactions related to such a foreign account during the year to the Russian tax authorities, on or before June 1 of the following year. The tax authorities can require you to provide appropriate supporting documents related to transactions in a foreign bank account. You are encouraged to contact your personal advisor before remitting your proceeds from participation in the Plan to Russia as exchange control requirements may change.

Anti-Corruption Legislation Information. Individuals holding public office in Russia, as well as their spouses and dependent children, may be prohibited from opening or maintaining a foreign brokerage or bank account and holding any securities, whether acquired directly or indirectly, in a foreign company (including Shares acquired under the Plan). You should consult with your personal legal advisor to determine whether this restriction applies to your circumstances.

SINGAPORE**TERMS AND CONDITIONS**

Restriction on Sale and Transferability. You hereby agree that any Shares acquired pursuant to the Option will not be offered for sale in Singapore prior to the six-month anniversary of the Grant Date, unless such sale or offer is made pursuant to one or more exemptions under Part XIII Division 1 Subdivision (4) (other than section 280) of the Securities and Futures Act (Chap. 289, 2006 Ed.) ("SFA").

NOTIFICATIONS

Securities Law Information. The grant of the Option is being made pursuant to the "Qualifying Person" exemption under section 273(1)(f) of the SFA, on which basis it is exempt from the prospectus and registration requirements under the SFA, and is not made with a view to the Option being subsequently offered for sale to any other party. The Plan has not been lodged or registered as a prospectus with the Monetary Authority of Singapore.

Chief Executive Officer and Director Notification Requirement. The Chief Executive Officer ("CEO") and the directors, associate directors (including alternate, substitute, associate and shadow directors) of a Singapore Affiliate are subject to certain notification requirements under the Singapore Companies Act. The CEO and directors must notify the Singapore Affiliate in writing of an interest (*e.g.*, Options, Shares, etc.) in the Company or any related company within two (2) business days of (i) its acquisition or disposal, (ii) any change in a previously disclosed interest (*e.g.*, when the Shares are sold), or (iii) becoming the CEO or a director.

SLOVAK REPUBLIC

There are no country-specific provisions.

SLOVENIA

There are no country-specific provisions.

SPAIN**TERMS AND CONDITIONS**

Nature of Grant. The following provision supplements Section XII of the Agreement:

In accepting this Option, you consent to participation in the Plan and acknowledge that you have received a copy of the Plan.

You understand that the Company has unilaterally, gratuitously and in its sole discretion decided to grant the Option under the Plan to individuals who may be members of the Board or Employees of the Company or its Affiliates throughout the world. The decision is a limited decision, which is entered into upon the express assumption and condition that the Option granted will not economically or otherwise bind the Company or any of its Affiliates on an ongoing basis, other than as expressly set forth in the Agreement, including this Appendix. Consequently, you understand that the Option granted hereunder is given on the assumption and condition that it shall not become a part of any employment contract (either with the Company or any of its Affiliates) and shall not be considered a mandatory benefit, salary for any purposes (including severance compensation) or any other right whatsoever. Further, you understand and freely accept that there is no guarantee that any benefit whatsoever shall arise from any gratuitous and discretionary grant of the Option since the future value of the Option and the underlying Shares is unknown and unpredictable. In addition, you understand that the Option granted hereunder would not be made but for the assumptions and conditions referred to above; thus, you understand, acknowledge and freely accept that, should any or all of the assumptions be mistaken or should any of the conditions not be met for any reason, then any grant of an Option or right to an Option shall be null and void.

Further, the vesting of the Option is expressly conditioned on your continued and active rendering of service, such that if your employment terminates for any reason whatsoever, the Option may cease vesting immediately, in whole or in part, effective on the date of your termination of employment (unless otherwise specifically provided in Section IV of the Agreement). This will be the case, for example, even if (1) you are considered to be unfairly dismissed without good cause (*i.e.*, subject to a “despido improcedente”); (2) you are dismissed for disciplinary or objective reasons or due to a collective dismissal; (3) you terminate service due to a change of work location, duties or any other employment or contractual condition; (4) you terminate service due to a unilateral breach of contract by the Company or an Affiliate; or (5) your employment terminates for any other reason whatsoever. Consequently, upon termination of your employment for any of the above reasons, you may automatically lose any rights to Options that were not vested on the date of your termination of employment, as described in the Plan and the Agreement.

You acknowledge that you have read and specifically accept the conditions referred to in Section IV of the Agreement.

NOTIFICATIONS

Securities Law Information. No “offer of securities to the public,” as defined under Spanish law, has taken place or will take place in the Spanish territory. The Agreement (including this Appendix) has not been nor will it be registered with the *Comisión Nacional del Mercado de Valores*, and does not constitute a public offering prospectus.

Exchange Control Information. If you acquire Shares under the Plan, you must declare the acquisition to the *Dirección General de Comercio e Inversiones* (the “*DGCI*”). If you acquire the Shares through the use of a Spanish financial institution, that institution will automatically make the declaration to the *DGCI* for you; otherwise, you will be required to make the declaration by filing a D-6 form. You must declare ownership of any Shares with the *DGCI* each January while the Shares are owned and must also report, in January, any sale of Shares that occurred in the previous year for which the report is being made, unless the sale proceeds exceed the applicable threshold, in which case the report is due within one (1) month of the sale.

Foreign Asset/Account Reporting Information. You are required to declare electronically to the Bank of Spain any securities accounts (including brokerage accounts held abroad), as well as the Shares held in such accounts if the value

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of the transactions during the prior tax year or the balances in such accounts as of December 31 of the prior tax year exceed €1,000,000.

To the extent that you hold Shares and/or have bank accounts outside of Spain with a value in excess of €50,000 (for each type of asset) as of December 31 each year, you will be required to report information on such assets in your tax return (tax form 720) for such year. After such Shares and/or accounts are initially reported, the reporting obligation will apply for subsequent years only if the value of any previously-reported Shares or accounts increases by more than €20,000 or if you sell or otherwise dispose of any previously-reported Shares or accounts. If the value of such Shares and/or accounts as of December 31 does not exceed €50,000, a summarized form of declaration may be presented.

SWEDEN

There are no country-specific provisions.

SWITZERLAND

NOTIFICATIONS

Securities Law Information. The Option is not intended to be publicly offered in or from Switzerland. Because this is a private offering in Switzerland, the Option is not subject to registration in Switzerland. Neither this document nor any other materials relating to the Option (i) constitutes a prospectus as such term is understood pursuant to article 652a of the Swiss Code of Obligations, (ii) may be publicly distributed nor otherwise made publicly available in Switzerland or (iii) have been or will be filed with, approved or supervised by any Swiss regulatory authority, including the Swiss Financial Market Supervisory Authority (“FINMA”).

TAIWAN

NOTIFICATIONS

Exchange Control Information. You may acquire and remit foreign currency (including proceeds from the sale of Shares or the receipt of dividends) up to US\$5,000,000 per year without justification. If the transaction amount is TWD500,000 or more in a single transaction, you must submit a Foreign Exchange Transaction Form. If the transaction amount is US\$500,000 or more in a single transaction, you must also provide supporting documentation to the satisfaction of the remitting bank.

THAILAND

NOTIFICATIONS

Exchange Control Information. If you remit funds out of Thailand to exercise your Option, it is your responsibility to comply with applicable exchange control laws. Under current exchange control regulations, if you are a Thai resident, you may remit funds out of Thailand up to US\$1,000,000 per year to purchase Shares (and otherwise invest in securities abroad) by submitting an application to an authorized agent, (*i.e.*, a commercial bank authorized by the Bank of Thailand to engage in the purchase, exchange and withdrawal of foreign currency). The application includes the Foreign Exchange Transaction Form, a letter describing the Option, a copy of the Plan and related documents, and evidence showing the nexus between the Company and your Employer. If you use a method of exercise that does not involve remitting funds out of Thailand, this requirement does not apply.

Further, if proceeds from the sale of Shares or the receipt of any dividends exceed US\$50,000 in a single transaction, you must (i) immediately repatriate such funds to Thailand and (ii) report the inward remittance to the Bank of Thailand on a Foreign Exchange Transaction Form. In addition, within three hundred and sixty (360) days of repatriation, you must either convert any funds repatriated to Thailand to Thai Baht or deposit the funds in a foreign exchange account with a Thai bank.

TURKEY**NOTIFICATIONS**

Securities Law Information. The Option is made available only to Employees of the Company and its Affiliates, and the offer of participation in the Plan is a private offering. The grant of the Option and the issuance of Shares at exercise takes place outside of Turkey.

Exchange Control Information. Any activity related to investments in foreign securities (*e.g.*, the sale of Shares under the Plan or the receipt of cash dividends paid in cash) must be conducted through a bank or financial intermediary institution licensed by the Turkish Capital Markets Board and should be reported to the Turkish Capital Markets Board by the bank or intermediary assisting with the transaction. You should contact a personal legal advisor for further information regarding these requirements.

UNITED ARAB EMIRATES**NOTIFICATIONS**

Securities Law Information. Options under the Plan are granted only to select Board members and Employees of the Company and its Affiliates and are for the purpose of providing equity incentives. The Plan and the Agreement are intended for distribution only to such Board members and Employees and must not be delivered to, or relied on by, any other person. You should conduct your own due diligence on the Options offered pursuant to this Agreement. If you do not understand the contents of the Plan and/or the Agreement, you should consult an authorized financial adviser. The Emirates Securities and Commodities Authority and the Dubai Financial Services Authority have no responsibility for reviewing or verifying any documents in connection with the Plan. Further, the Ministry of the Economy and the Dubai Department of Economic Development have not approved the Plan or the Agreement nor taken steps to verify the information set out therein, and have no responsibility for such documents.

UNITED KINGDOM**TERMS AND CONDITIONS**

Tax Withholding. This provision supplements Section V of the Agreement:

Without limitation to Section V of the Agreement, you agree that you are liable for all Tax Obligations and hereby covenant to pay all such Tax Obligations as and when requested by the Company or your Employer or by Her Majesty's Revenue and Customs ("**HMRC**") (or any other tax authority or any other relevant authority). You also agree to indemnify and keep indemnified the Company and your Employer against any taxes that they are required to pay or withhold or have paid or will pay to HMRC (or any other tax authority or any other relevant authority) on your behalf.

Notwithstanding the foregoing, if you are an executive officer or director within the meaning of Section 13(k) of the Exchange Act, as amended from time to time, you understand that you may not be able to indemnify the Company or your Employer for the amount of income tax not collected from or paid by you, as it may be considered a loan. In the event that you are an executive officer or director and income tax is not collected from you within ninety (90) days after the end of the tax year in which the Taxable Event occurs, the amount of any uncollected income tax may constitute an additional benefit to you on which additional income tax and national insurance contributions ("**NICs**") may be payable. You acknowledge that you are responsible for reporting and paying any income tax due on this additional benefit directly to HMRC under the self-assessment regime and for reimbursing your Employer for the value of any

NICs due on this additional benefit, which the Company or your Employer may recover from you by any of the means set forth in Section V of the Agreement.

If the maximum applicable withholding rate is used, any over-withheld amount may be credited to you by the Company or your Employer (with no entitlement to the Common Stock equivalent) or if not so credited, you may seek a refund from the local tax authorities.

Joint Election. As a condition of the Option granted hereunder, you agree to accept any liability for secondary Class 1 National Insurance Contributions (the “Employer NICs”), which may be payable by the Company or your Employer with respect to the exercise of the Option and issuance of Shares subject to the Option, the assignment or release of the Option for consideration, or the receipt of any other benefit in connection with the Option.

Without limitation to the foregoing, you agree to make an election (the “Election”), in the form specified and/or approved for such election by HMRC, that the liability for your Employer NICs payments on any such gains shall be transferred to you to the fullest extent permitted by law. You further agree to execute such other elections as may be required between you and any successor to the Company and/or your Employer. You hereby authorize the Company and your Employer to withhold such Employer NICs by any of the means set forth in Section V of the Agreement.

Failure by you to enter into an Election, withdrawal of approval of the Election by HMRC or a joint revocation of the Election by you and the Company or your Employer, as applicable, shall be grounds for the forfeiture and cancellation of the Option, without any liability to the Company or your Employer.

UNITED STATES

TERMS AND CONDITIONS

Nature of Grant. The following provision replaces Section IV(B)(1) of the Agreement:

(1) “termination of your employment” shall mean the last date you are either an active employee of the Company or an Affiliate or actively engaged as a Director of the Company or an Affiliate; in the event of termination of your employment (whether or not in breach of local labor laws), your right to exercise the Option and vest under the Plan, if any, will terminate effective as of the date that you are no longer actively employed; provided, however, that such right will be extended by any notice period mandated by law (e.g. the Worker Adjustment and Retraining Notification Act (“WARN Act”) notice period or similar periods pursuant to local law) and any paid administrative leave (as applicable), unless the Company shall provide you with written notice otherwise before the commencement of such notice period or leave. Your right, if any, to exercise the Option after termination of employment will be measured by the date of termination of your active employment; provided, however, that such right will be extended by any notice period mandated by law (e.g. the Worker Adjustment and Retraining Notification Act (“WARN Act”) notice period or similar periods pursuant to local law) and any paid administrative leave, unless the Company shall provide you with written notice otherwise before the commencement of such notice period or leave. Notwithstanding anything to the contrary herein, in no event shall the term of this Option extend beyond the Expiration Date set forth on the Award Notice and in this Agreement.

RESTRICTED STOCK UNIT AGREEMENT
(Director Equity Incentive Program)

_____, Amgen Inc. Grantee:

On this __ day of _____ (the "Grant Date"), Amgen Inc., a Delaware corporation (the "Company"), pursuant to its Amgen Inc. 2009 Director Equity Incentive Program (as amended and/or restated from time to time, the "Program") which implements the Amgen Inc. Amended and Restated 2009 Equity Incentive Plan, as amended and/or restated from time to time (the "Plan"), has granted to you, the grantee named above, _____ restricted stock units (the "Units") with respect to _____ Shares on the terms and conditions set forth in this Restricted Stock Unit Agreement, including any appendix hereto (as further described in Section XIV below) containing special terms and conditions applicable to your country (collectively, this "Agreement"), and the Plan (the "Award"). Capitalized terms not defined herein shall have the meanings assigned to such terms in the Plan and/or the Program.

I. Vesting Schedule. Subject to the terms and conditions of this Agreement and in consideration for services previously rendered by you, one hundred percent (100%) of the Units shall vest upon the Grant Date (the "Vesting Date").

II. Form and Timing of Settlement. Any vested Units shall be settled by the Company delivering to you a number of Shares equal to the number of Shares covered by this Award on, or as soon as practicable after, the Vesting Date (but in any event by the fifteenth day of the third month following the tax year in which the Vesting Date occurs) (the "Non-Deferred Payment Date"); *provided, however*, that notwithstanding anything herein to the contrary, if you timely and irrevocably elected in writing, pursuant to the Program, to defer the settlement of the vested Units subject to your Award under the Program, then any vested Units shall be settled on the applicable Deferred Payment Date that you elected pursuant to the Program (the Non-Deferred Payment Date or the Deferred Payment Date, as applicable, the "Payment Date"); *provided, further, however*, that no Shares shall be issued hereunder unless the Board determines that the consideration received by the Company in exchange for the issuance of Common Stock has a value not less than the par value thereof.

III. Transferability. No benefit payable under, or interest in, this Agreement shall be subject in any manner to anticipation, alienation, sale, transfer, assignment, pledge, encumbrance or charge and any such attempted action shall be void and no such benefit or interest shall be, in any manner, liable for, or subject to, your or your beneficiary's debts, contracts, liabilities or torts; *provided, however*, nothing in this Section III shall prevent transfer (i) by will, (ii) by applicable laws of descent and distribution or (iii) to an Alternate Payee to the extent that a QDRO so provides, as further described in the Program.

IV. No Contract for Employment. This Agreement is not an employment or service contract and nothing in this Agreement shall be deemed to create in any way whatsoever any obligation on your part to continue in the employ or service of the Company or any Affiliate, or of the Company or any Affiliate to continue your employment or service with the Company or any Affiliate.

V. Notices. Any notices provided for in this Agreement, the Program or the Plan shall be given in writing or electronically and shall be deemed effectively given upon receipt or, in the case of notices delivered by the Company to you, five (5) days after deposit in the United States mail or equivalent foreign postal service, postage prepaid, addressed to you at such address as is currently maintained in the Company's records or at such other address as you hereafter designate by written notice to the Company. Such notices may be given using any automated system for the documentation of Units, such as a system using an internet website or interactive voice response, as approved by the Company.

VI. Nature of Grant. In accepting the Units granted hereunder, you acknowledge, understand and agree that:

(a) the Program and Plan are established voluntarily by the Company, are discretionary in nature and may be modified, amended, suspended or terminated by the Company at any time;

(b) the grant of the Units is voluntary and occasional and does not create any contractual or other right to receive future grants of Units, or benefits in lieu of Units, even if Units have been granted repeatedly in the past;

(c) your participation in the Program and Plan is voluntary;

(d) all decisions with respect to future awards, if any, will be at the sole discretion of the Company;

(e) the future value of the underlying Shares is unknown and cannot be predicted with certainty; and

(f) the Units and the benefits under the Program and Plan, if any, will not automatically transfer to another company in the case of a merger, takeover or transfer of liability.

VII. **No Advice Regarding Grant.** The Company is not providing any tax, legal or financial advice, nor is the Company making any recommendations regarding your participation in the Program and Plan, or your acquisition or sale of the underlying Shares. You should consult with your own personal tax, legal and financial advisors regarding your participation in the Program and Plan before taking any action related to the Program and Plan.

VIII. **Data Privacy and Notice of Consent.** *You hereby expressly consent to the collection, use and transfer, in electronic or other form, of your personal data as described in this Agreement for the purpose of implementing, administering and managing your participation in the Program and Plan. In order for the Company to facilitate your participation in the Program and Plan, the Company must collect and use personal data about you. In accordance with applicable laws, reasonable security measures will be implemented and maintained to protect the security of your personal data; however, you understand that absolute security cannot be guaranteed.*

You authorize the transfer of your personal data to Merrill Lynch Bank & Trust Co., FSB (or any successor thereto) or any other third parties which may assist the Company (presently or in the future) with implementing, administering, and managing your participation in the Program and Plan to receive, possess, use, retain and transfer your personal data, in electronic or other form, for the purpose of implementing, administering and managing your participation in the Program and Plan, including any requisite transfer of such personal data as may be required to any other broker, escrow agent or other third party with whom the Shares issued in settlement of the Units may be deposited. You understand that such authorized recipients of your personal data may be located in countries that do not provide the same level of data privacy laws and protections as the country in which your personal data originated. Where permitted by applicable law, you may, at any time, request access or correction to, or destruction or data portability of your personal data by contacting the Company. You understand that refusal or withdrawal of consent may affect your ability to participate in the Program and Plan. For more information on the consequences of your refusal to consent or withdrawal of consent, you understand that you may contact the Company.

IX. **Language.** If you have received this Agreement or any other document related to the Program and Plan translated into a language other than English and if the meaning of the translated version differs from the English version, the English version shall control.

X. **Electronic Delivery.** The Company may, in its sole discretion, decide to deliver any documents related to current or future participation in the Program and Plan (including this Agreement) by electronic means. You hereby consent to receive such documents by electronic delivery and agree to participate in the Program and Plan through an online or electronic system established and maintained by the Company or a third party designated by the Company.

XI. **Severability.** The provisions of this Agreement are severable and if any one or more are determined to be illegal or otherwise unenforceable, in whole or in part, the remaining provisions shall nevertheless be binding and enforceable.

XII. Plan and Program. This Agreement is subject to all the provisions of the Plan and Program and their provisions are hereby made a part of this Agreement, including without limitation the provisions of Section 9.5 of the Plan relating to Restricted Stock Units, and is further subject to all interpretations, amendments, rules and regulations which may from time to time be promulgated and adopted pursuant to the Plan. In the event of any conflict between the provisions of this Agreement and those of the Plan and the Program, the provisions of the Plan and the Program shall control.

XIII. Governing Law and Venue. The terms of this Agreement shall be governed by the laws of the State of Delaware without giving effect to principles of conflicts of laws. For purposes of litigating any dispute that arises hereunder, the parties hereby submit to and consent to the jurisdiction of the State of Delaware, and agree that such litigation shall be conducted in the courts of the State of Delaware, or the federal courts for the United States for the federal district located in the State of Delaware, and no other courts, where this Agreement is made and/or to be performed.

XIV. Appendix. Notwithstanding any provisions in this Agreement, Units shall be subject to any special terms and conditions set forth in any Appendix to this Agreement for your country. Moreover, if you relocate to one of the countries included in the Appendix, the special terms and conditions for such country will apply to you, to the extent the Company determines that the application of such terms and conditions is necessary or advisable in order to comply with local law or facilitate the administration of the Program and Plan. The Appendix constitutes part of this Agreement.

XV. Imposition of Other Requirements. The Company reserves the right to impose other requirements on your participation in the Plan, on the Units and on any Shares acquired under the Program and Plan, to the extent the Company determines it is necessary or advisable in order to comply with local law or facilitate the administration of the Program and Plan, and to require you to sign any additional agreements or undertakings that may be necessary to accomplish the foregoing.

XVI. Waiver. You acknowledge that a waiver by the Company of breach of any provision of this Agreement shall not operate or be construed as a waiver of any other provision of this Agreement, or of any subsequent breach by you or any other grantee.

XVII. Dividend Equivalent Rights. Each Unit granted hereunder shall be credited with a corresponding Dividend Equivalent right, pursuant to which, if the Company declares one or more dividends or distributions (each, a "Dividend") on its Common Stock with a record date which occurs during the period commencing on the Grant Date through and including the day immediately preceding the day that Shares are issued to you in settlement of your Units, whether in the form of cash, Shares or other property, then on the date such Dividend is paid to the Company's stockholders you shall be credited with an amount equal to the amount or Fair Market Value of such Dividend which would have been payable to you if you then held a number of Shares equal to the number of the Shares covered by your Units as of the record date for such Dividend. Any such Dividend Equivalents shall be credited and deemed reinvested in the Shares as of the Dividend payment date. Dividend Equivalents shall be settled by the Company on the Payment Date. Dividend Equivalents shall be settled by the Company delivering to you full Shares, unless the Board determines, at any time prior to payment and in its discretion, that they shall be settled in cash. Dividend Equivalents with respect to fractional Shares shall be settled in cash. Dividend Equivalent rights and any amounts that may become distributable in respect thereof shall be treated separately from the Units and the rights arising in connection therewith for purposes of the designation of time and form of payments required by Section 409A of the Code (together with any Department of Treasury regulations and other interpretive guidance issued thereunder, including without limitation any such regulations or other guidance that may be issued after the Effective Date, "Section 409A").

XVIII. Section 409A. To the extent that this Award constitutes a "non-qualified deferred compensation plan" within the meaning of Section 409A, this Award shall be interpreted and operated in accordance with Section 409A. Notwithstanding any provision of this Award to the contrary, in the event that following the grant of any Units, the Board determines that this Award does or may violate any of the requirements of Section 409A, the Board may adopt such amendments to the Award or adopt other policies and procedures (including amendments, policies and procedures with retroactive effect), or take any other actions, that the Board determines are necessary or appropriate to (a) exempt the Award from the application of Section 409A and/or preserve the intended tax treatment of the benefits

provided with respect to the Award, or (b) comply with the requirements of Section 409A; *provided, however*, that this paragraph shall not create an obligation on the part of the Board to adopt any such amendment, policy or procedure or take any such other action. No payment hereunder shall be made to you during the six (6)-month period following your "separation from service" (within the meaning of Section 409A) to the extent that the Company determines that paying such amount at the time set forth herein would be a prohibited distribution under Section 409A(a)(2)(B)(i). If the payment of any such amounts is delayed as a result of the previous sentence, then within thirty (30) days following the end of such six (6)-month period (or, if earlier, your death), the Company shall pay to you (or to your estate) the cumulative amounts that would have otherwise been payable to you during such period, without interest.

XIX. Headings. This Agreement's section headings are for convenience only and shall not constitute a part of this Agreement or affect this Agreement's meaning.

XX. Counterparts. This Agreement may be executed in any number of multiple counterparts, each of which shall be deemed to be an original copy and all of which shall constitute one agreement.

Very truly yours,
AMGEN INC.

By: _____
Name:
Title:

Accepted and Agreed,
this ___ day of _____, 20__.

By: _____
Name:

APPENDIX A**ADDITIONAL TERMS AND CONDITIONS OF THE
AMGEN INC. 2009 AMENDED AND RESTATED EQUITY INCENTIVE PLAN AND 2009 DIRECTOR EQUITY INCENTIVE PROGRAM, IN
EACH CASE,
AS AMENDED AND/OR RESTATED
FROM TIME TO TIME****GRANT OF RESTRICTED STOCK UNITS
(NON-U.S.)*****TERMS AND CONDITIONS***

This Appendix includes additional terms and conditions that govern any Units granted under the Program and Plan if, under applicable law, you are a resident of, or are deemed to be a resident of one of the countries listed below. Furthermore, the additional terms and conditions that govern any Units granted hereunder may apply to you if you relocate to one of the countries listed below. Certain capitalized terms used but not defined in this Appendix A shall have the meanings set forth in the Program, the Plan and/or the Agreement to which this Appendix is attached.

NOTIFICATIONS

This Appendix also includes notifications relating to exchange control and other issues of which you should be aware with respect to your participation in the Program and Plan. The information is based on the exchange control, securities and other laws in effect in the countries to which this Appendix refers as of October 2016. Such laws are often complex and change frequently. As a result, the Company strongly recommends that you not rely on the notifications herein as the only source of information relating to the consequences of your participation in the Program and Plan because the information may be outdated when you vest in the Units and acquire Shares under the Program and Plan, or when you subsequently sell Shares acquired under the Program and Plan.

In addition, the notifications are general in nature and may not apply to your particular situation, and the Company is not in a position to assure you of any particular result. Accordingly, you are advised to seek appropriate professional advice as to how the relevant laws in your country may apply to your situation. Finally, if you are a citizen or resident of a country other than the one in which you are currently working, the information contained herein may not be applicable to you or you may be subject to the provisions of one or more jurisdictions.

ALL NON-U.S. JURISDICTIONS***NOTIFICATIONS***

Insider Trading Restrictions/Market Abuse Laws. Depending on your country, you may be subject to insider trading restrictions and/or market abuse laws, which may affect your ability to acquire or sell Shares or rights to Shares (*e.g.*, Units) under the Program and Plan during such times as you are considered to have “inside information” regarding the Company (as defined by the laws of your country). Any restrictions under these laws or regulations are separate from and in addition to any restrictions that may be imposed under any applicable Company insider trading policy. You are responsible for ensuring your compliance with any applicable restrictions and you should speak with your personal legal advisor on this matter.

Foreign Asset/Account Reporting Information. Your country of residence may have certain foreign asset and/or account reporting requirements which may affect your ability to acquire or hold Shares under the Plan or cash received from participating in the Program and Plan (including from any Dividends or Dividend Equivalents received, or sale proceeds arising from the sale of Shares) in a brokerage or bank account outside of your country. You may be required to report such accounts, assets or transactions to the tax or other authorities in your country. You are responsible for ensuring your compliance with such regulations, and you should speak with your personal legal advisor on this matter.

FRANCE**TERMS AND CONDITIONS**

Language Consent. By accepting the grant, you confirm having read and understood the Program and Plan and Agreement which were provided in the English language. You accept the terms of those documents accordingly.

En acceptant l'attribution, vous confirmez avoir lu et compris le Program et le Plan et le Contrat, qui ont été communiqués en langue anglaise. vous acceptez les termes de ces documents en connaissance de cause.

NOTIFICATIONS

Foreign Asset/Account Reporting Information. French residents and non-residents must declare to the Customs Authorities the cash and securities they import or export without the use of a financial institution when the value of such cash or securities exceeds €10,000. French residents also must report all foreign bank and brokerage accounts on an annual basis (including accounts opened or closed during the tax year) on a specific form together with the income tax return. Failure to comply could trigger significant penalties.

SWITZERLAND**NOTIFICATIONS**

Securities Law Information. The Award is not intended to be publicly offered in or from Switzerland. Because this is a private offering in Switzerland, the Units are not subject to registration in Switzerland. Neither this document nor any other materials relating to the Units (i) constitutes a prospectus as such term is understood pursuant to article 652a of the Swiss Code of Obligations, (ii) may be publicly distributed nor otherwise made publicly available in Switzerland or (iii) have been or will be filed with, approved or supervised by any Swiss regulatory authority, including the Swiss Financial Market Supervisory Authority ("FINMA").

**AMGEN INC. 2009
PERFORMANCE AWARD PROGRAM**
(Effective March 3, 2009)

As Amended Through December 12, 2017

ARTICLE I

PURPOSE

The purpose of this document is to set forth the general terms and conditions applicable to the Amgen Inc. 2009 Performance Award Program (the "Program") established by the Compensation and Management Development Committee of the Board of Directors of Amgen Inc. (the "Company") pursuant to, and in implementation of, Articles 5 and 9 of the Company's 2009 Amended and Restated Equity Incentive Plan, as amended and/or restated from time to time (the "2009 Plan"). The Program is intended to carry out the purposes of the 2009 Plan and provide a means to reinforce objectives for sustained long-term performance and value creation by awarding selected key employees of the Company with payments in Company stock based on the level of achievement of pre-established performance goals during performance periods through the award of Performance Awards pursuant to Articles 5 and 9 of the 2009 Plan, subject to the restrictions and other provisions of the Program and the 2009 Plan.

ARTICLE II

DEFINITIONS

Unless otherwise defined herein, capitalized terms used herein shall have the meanings assigned to such terms in the 2009 Plan.

"Award" shall mean the earned Performance Units payable in Common Stock under the Program for a Performance Period.

"Board" shall mean the Board of Directors of the Company.

"Change of Control" shall mean the occurrence of any of the following:

(i) the acquisition (other than from the Company) by any person, entity or "group," within the meaning of Section 13(d)(3) or 14(d)(2) of the Exchange Act (excluding, for this purpose, the Company or any of its Affiliates, or any employee benefit plan of the Company or any of its Affiliates which acquires beneficial ownership of voting securities of the Company), of beneficial ownership (within the meaning of Rule 13d-3 promulgated under the Exchange Act) of fifty percent (50%) or more of either the then outstanding shares of Common Stock or the combined voting power of the Company's then outstanding voting securities entitled to vote generally in the election of directors; or

(ii) individuals who, as of April 2, 1991, constitute the Board (the "Incumbent Board") cease for any reason to constitute at least a majority of the Board, provided that any person becoming a director subsequent to April 2, 1991, whose election, or nomination for election by the Company's stockholders, was approved by a vote of at least a majority of the directors then comprising the Incumbent Board (other than an election or nomination of an individual whose initial assumption of office is in connection with an actual or threatened election contest relating to the election of the Directors of the Company, as such terms are used in Rule 14a-11 of Regulation 14A promulgated under the Exchange Act) shall be, for purposes of the Plan, considered as though such person were a member of the Incumbent Board; or

(iii) the consummation by the Company of a reorganization, merger, consolidation, (in each case, with respect to which persons who were the stockholders of the Company immediately prior to such reorganization,

merger or consolidation do not, immediately thereafter, own more than fifty percent (50%) of the combined voting power entitled to vote generally in the election of directors of the reorganized, merged or consolidated company's then outstanding voting securities) or a liquidation or dissolution of the Company or of the sale of all or substantially all of the assets of the Company.

Notwithstanding anything herein or in any Award Agreement to the contrary, if a Change of Control constitutes a payment event with respect to any Award that is subject to United States income tax and which provides for a deferral of compensation that is subject to Section 409A of the Code, the transaction or event described in subsection (i), (ii), (iii) or (iv) must also constitute a "change in control event," as defined in Treasury Regulation §1.409A-3(i)(5), in order to constitute a Change of Control for purposes of payment of such Award.

For Awards granted to Participants under this Program for Performance Periods beginning on or after January 1, 2018, clause (ii) of this "Change of Control" definition shall be deleted in its entirety and the remaining provisions of this definition of "Change of Control" shall be deemed renumbered to reflect such deletion.

"Code" shall mean the Internal Revenue Code of 1986, as amended from time to time, together with the regulations and official guidance promulgated thereunder.

"Common Stock" shall mean the common stock, par value \$0.0001 per share, of the Company.

"Determination Date" shall have the meaning ascribed to it in Section 4.1.

"Participant" shall mean a key employee of the Company or an Affiliate who participates in this Program pursuant to the provisions of Article III hereof.

"Performance Period" shall mean a period of time with respect to which performance is measured as determined by the Committee. Performance Periods may overlap.

"Performance Goals" shall have the meaning ascribed to it in Section 5.2.

"Performance Unit" shall mean a right granted to a Participant pursuant to the Program to receive Common Stock, the payment of which is contingent upon achieving the Performance Goals.

"Permanent and Total Disability" shall have the meaning ascribed to such term under Section 22(e)(3) of the Code and with such permanent and total disability being certified prior to termination of a Participant's employment by (i) the Social Security Administration, (ii) the comparable governmental authority applicable to an Affiliate of the Company, (iii) such other body having the relevant decision-making power applicable to an Affiliate of the Company, or (iv) an independent medical advisor appointed by the Company in its sole discretion, as applicable, in any such case.

"Retirement-Eligible" shall mean when a Participant is at least sixty-five (65) years of age, or when a Participant is at least fifty-five (55) years of age and has been an employee of the Company and/or an Affiliate of the Company for at least ten (10) years in the aggregate as determined by the Company in its sole discretion according to Company policies and practices as in effect from time to time.

"Section 162(m) Participant" shall mean any Participant designated by the Committee as a "covered employee" within the meaning of Section 162(m) of the Code whose compensation for the fiscal year in which the Participant is so designated or a future fiscal year may be subject to the limit on deductible compensation imposed by Section 162(m) of the Code.

"Voluntary Retirement" shall mean voluntary termination of employment that is not the result of Permanent and Total Disability.

ARTICLE IIIPARTICIPATION

3.1 Participants. Participants for any Performance Period shall be those active key employees of the Company or an Affiliate who are designated in writing as eligible for participation by the Committee no later than the ninetieth (90th) day after the beginning of such Performance Period.

3.2 No Right to Participate. No Participant or other employee of the Company or an Affiliate shall, at any time, have a right to participate in this Program for any Performance Period, notwithstanding having previously participated in this Program.

ARTICLE IVADMINISTRATION

4.1 Generally. The Committee shall establish the basis for payments under this Program in relation to specified Performance Goals, as more fully described in Article V hereof. With respect to the 162(m) Participants, the Committee shall establish the basis for payments under this Program in relation to specified Performance Goals no later than the ninetieth (90th) day after the beginning of such Performance Period, but in no event after 25 percent of the Performance Period has lapsed. Following the end of each Performance Period, once all of the information necessary for the Committee to determine the Company's performance is made available to the Committee, the Committee shall determine the amount of the Award payable to each Participant; *provided, however*, that any such determination shall be made no later than six months following the end of such Performance Period (the date of such determination shall hereinafter be called the "Determination Date"). The Committee shall have the power and authority granted it under Article 12 of the 2009 Plan, including, without limitation, the authority to construe and interpret this Program, to prescribe, amend and rescind rules, regulations and procedures relating to its administration and to make all other determinations necessary or advisable for administration of this Program. Decisions of the Committee in accordance with the authority granted hereby shall be conclusive and binding. Subject only to compliance with the express provisions hereof, the Committee may act in its sole and absolute discretion with respect to matters within its authority under this Program.

4.2 Provisions Applicable to Section 162(m) Participants. Subject to the sole discretion of the Committee, any Awards paid hereunder to a Section 162(m) Participant shall satisfy and shall be interpreted in a manner that satisfies any applicable requirements as "qualified performance-based compensation" within the meaning of Section 162(m) of the Code and any provisions, application or interpretation of the Program or the 2009 Plan that is inconsistent with this intent shall be disregarded. To the extent that any Award (i) is deemed to constitute "nonqualified deferred compensation" (within the meaning of Code Section 409A) and (ii) would nevertheless be subject to the deduction limitations imposed by Section 162(m) of the Code in the year in which such Award would otherwise be paid under this Program, the payment of such Award may, in the Committee's discretion, be delayed until the earlier of (A) the first year in which such Award would not be subject to the deduction limitations imposed by Section 162(m) or (B) such time as the Participant ceases to be a "service provider" to the Company (within the meaning of Section 409A of the Code).

4.3 Provisions Applicable to Participants in Foreign Jurisdictions. Notwithstanding any provision of the Program to the contrary, in order to comply with the laws in other countries in which the Company and its Affiliates operate or have employees, the Committee, in its sole discretion, shall have the power and authority to:

(i) modify the terms and conditions of any award of Performance Units granted to employees outside the United States to comply with applicable foreign laws;

(ii) condition the effectiveness of any award of Performance Units upon approval or compliance with any applicable foreign laws, regulations, rules or local governmental regulatory exemption or approvals;

(iii) provide for payment of any Award in cash or Common Stock, at the Company's election, to the extent necessary to comply with applicable foreign laws; and

(iv) take any other action, before or after an award of Performance Units is made, that it deems advisable to obtain approval or comply with any necessary local governmental regulatory exemptions or approvals.

Notwithstanding the foregoing, the Committee may not take any actions hereunder, and no award of Performance Units shall be granted, that would violate the Securities Act, the Exchange Act, the Code, or any other securities or tax or other applicable law or regulation.

ARTICLE V

AWARD DETERMINATIONS

5.1 Award of Performance Units. The Committee shall determine the number of Performance Units (rounded down to the nearest whole number) to be awarded under this Program to each Participant with respect to such Performance Period. With respect to the Section 162(m) Participants, the Committee shall determine the number of Performance Units (rounded down to the nearest whole number) to be awarded under this Program to each Section 162(m) Participant with respect to such Performance Period no later than the ninetieth (90th) day after the beginning of such Performance Period, but in no event after 25 percent of the Performance Period has elapsed. Performance Units granted under the Program shall constitute Performance Awards under Article 9 of the 2009 Plan.

5.2 Performance Requirements. The Committee shall approve the performance goals (collectively, the "Performance Goals") with respect to any of the business criteria permitted under the 2009 Plan, each subject to such adjustments as the Committee may specify in writing at such time, and shall establish a formula, standard or schedule which aligns the level of achievement of the Performance Goals with the earned Performance Units.

With respect to the Section 162(m) Participants, the Committee shall approve the Performance Goals no later than the ninetieth (90th) day after the beginning of such Performance Period, but in no event after 25 percent of the Performance Period has elapsed, and the Performance Goals may not be changed during the Performance Period, but the thresholds, targets and multiplier measures of the Performance Goals shall be subject to such adjustments as the Committee may specify in writing no later than the ninetieth (90th) day after the beginning of such Performance Period, but in no event after 25 percent of the Performance Period has elapsed.

5.3 Dividend Equivalents. The Committee shall determine whether Dividend Equivalents shall be credited with respect to Performance Units awarded under the Program pursuant to Section 9.2 of the 2009 Plan on such terms and conditions determined by the Committee. Any such Dividend Equivalents shall be credited in cash or additional shares of Common Stock by such formula and at such time and subject to such limitations as may be determined by the Committee.

ARTICLE VI

PAYMENT OF AWARDS

6.1 Form and Timing of Payment. Except as set forth in Section 8.1 below, no Award payable pursuant to this Program shall be paid unless and until the Committee certifies, in writing, the extent to which the Performance Goals have been achieved and the corresponding number of Performance Units earned. Subject to satisfaction of tax or similar obligations as provided for in Section 11.2 of the 2009 Plan, Awards shall be paid by the Company in Shares (on a one-to-one basis) or in cash based on the Fair Market Value of the number of Shares subject to the Awards as of the last day of the Performance Period, or in a combination of Shares and cash, as determined by the Administrator at any time prior to payment and in its discretion, as soon as practicable, and in any event within 90 days, after the last day of the Performance Period. Shares of Common Stock issued in respect of an Award shall be deemed to be issued

in consideration for future services to be rendered or past services actually rendered to the Company or for its benefit, by the Participant, which the Committee deems to have a value at least equal to the aggregate par value thereof.

6.2 Reserved.

ARTICLE VII

TERMINATION OF EMPLOYMENT

7.1 Termination of Employment During Performance Period.

(a) In the event that a Participant's employment with the Company or an Affiliate is terminated prior to the last business day of a Performance Period by reason of such Participant's Voluntary Retirement and such Participant is Retirement-Eligible on the date of such termination, the full or prorated amount of such Participant's Award, if any, applicable to such Performance Period shall be paid in accordance with the provisions of Article VI above. For purposes of the foregoing, the amount of the Participant's Award (rounded down to the nearest whole number) shall be determined based on the Company's performance as compared to the Performance Goals for such Performance Period and (i) if the Award was granted with respect to a Performance Period commencing in a calendar year prior to the calendar year in which such Voluntary Retirement occurs, the full amount of the Award is payable, and (ii) if the Award was granted with respect to the Performance Period commencing in the calendar year in which such Voluntary Retirement occurs, the Award otherwise payable is multiplied by a fraction (rounded to two decimal places), the numerator of which is the number of complete months of employment during such calendar year, and the denominator of which is twelve (12). Notwithstanding the foregoing, a Participant shall not be entitled to such full or prorated amount of such Participant's Award pursuant to this Section 7.1(a) unless either such Participant signs a general release and waiver in a form provided by the Company and delivers it to the Company no later than the date specified by the Company, or the Company waives such release requirement in writing; *provided, however*, that in no event shall payment of such full or prorated amount of such Participant's Award be made later than the specified payment date as set forth in Section 6.1 above.

(b) In the event that a Participant's employment with the Company or an Affiliate is terminated prior to the last business day of a Performance Period by reason of such Participant's death or Permanent and Total Disability, the full or prorated amount of such Participant's Award, if any, applicable to such Performance Period shall be paid in accordance with the provisions of Article VI above. For purposes of the foregoing, the amount of the Participant's Award (rounded down to the nearest whole number) shall be determined based on the Company's performance as compared to the Performance Goals for such Performance Period and (i) if the Award was granted with respect to a Performance Period commencing in a calendar year prior to the calendar year in which such termination occurs, the full amount of the Award is payable, and (ii) if the Award was granted with respect to the Performance Period commencing in the calendar year in which such termination occurs, the Award otherwise payable is multiplied by a fraction (rounded to two decimal places), the numerator of which is the number of complete months of employment during such calendar year, and the denominator of which is twelve (12). Notwithstanding the foregoing, with respect to a Participant whose employment is terminated due to such Participant's Permanent and Total Disability, such Participant shall not be entitled to such full or prorated amount of such Participant's Award pursuant to this Section 7.1(b) unless either such Participant signs a general release and waiver in a form provided by the Company and delivers it to the Company no later than the date specified by the Company, or the Company waives such release requirement in writing; *provided, however*, that in no event shall payment of such full or prorated amount of such Participant's Award be made later than the specified payment date as set forth in Section 6.1 above.

(c) In the event that a Participant's employment with the Company or an Affiliate is terminated prior to the last business day of a Performance Period for any reason other than as specified in Sections 7.1(a) and (b) above, all of such Participant's rights to an Award for such Performance Period shall be forfeited, unless, prior to the payment date described in Article VI above, the Company, in its sole discretion, makes a written determination to otherwise pay the full or prorated amount of the Participant's Award, if any, applicable to such Performance Period, which full or prorated amount shall be paid in accordance with the provisions of Article VI above. For purposes of the foregoing, if the payment of the Participant's Award is prorated, the amount of the Participant's Award (rounded down

to the nearest whole number) shall be determined based on the Company's performance as compared to the Performance Goals for such Performance Period and (i) if the Award was granted with respect to a Performance Period commencing in a calendar year prior to the calendar year in which such termination occurs, the full amount of the Award is payable, and (ii) if the Award was granted with respect to the Performance Period commencing in the calendar year in which such termination occurs, the Award otherwise payable is multiplied by a fraction (rounded to two decimal places), the numerator of which is the number of complete months of employment during such calendar year, and the denominator of which is twelve (12). Notwithstanding the foregoing, a Participant shall not be entitled to such full or prorated amount of such Participant's Award pursuant to this Section 7.1(c) unless either such Participant signs a general release and waiver in a form provided by the Company and delivers it to the Company no later than the date specified by the Company, or the Company waives such release requirement in writing; *provided, however*, that in no event shall payment of such full or prorated amount of such Participant's Award be made later than the specified payment date as set forth in Section 6.1 above.

7.2 Termination of Employment After End of Performance Period. In the event that a Participant's employment with the Company or an Affiliate is terminated on or after the last business day of the applicable Performance Period but prior to the Determination Date for any reason, the amount of any Award applicable to such Performance Period shall be paid to the Participant in accordance with the provisions of Article VI above.

ARTICLE VIII

CHANGE OF CONTROL

8.1 Change of Control During Performance Period. Notwithstanding anything to the contrary in the Program, the Committee shall set forth the terms of any Award payable in the event of Change of Control that occurs during a Performance Period in the Performance Goals.

8.2 Change of Control After End of Performance Period. Notwithstanding anything to the contrary in the Program, in the event of a Change of Control that occurs after the end of the applicable Performance Period but prior to the Determination Date, the amount of any Award applicable to such Performance Period shall be paid to the Participant in accordance with the provisions of Article VI above.

ARTICLE IX

MISCELLANEOUS

9.1 Plan. The Program is subject to all the provisions of the 2009 Plan and its provisions are hereby made a part of the Program, including without limitation the provisions of Articles 5 and 9 thereof (relating to Performance-Based Compensation and Performance Awards) and Section 13.2 thereof (relating to adjustments upon changes in the Common Stock), and is further subject to all interpretations, amendments, rules and regulations which may from time to time be promulgated and adopted pursuant to the 2009 Plan. In the event of any conflict between the provisions of the Program and those of the 2009 Plan, the provisions of the 2009 Plan shall control. Notwithstanding any provision of the Program to the contrary, any earned Performance Units paid in cash rather than shares of Common Stock shall not be deemed to have been issued by the Company for any purpose under the 2009 Plan.

9.2 Amendment and Termination. Notwithstanding anything herein to the contrary, the Committee may, at any time, terminate, modify or suspend this Program; *provided, however*, that, without the prior consent of the Participants affected, no such action may adversely affect any rights or obligations with respect to any Awards theretofore earned but unpaid for a completed Performance Period, whether or not the amounts of such Awards have been computed and whether or not such Awards are then payable. Notwithstanding the forgoing, at any time the Committee determines that the Performance Units may be subject to Section 409A of the Code, the Committee shall have the right, in its sole discretion, and without a Participant's prior consent to amend the Program as it may determine is necessary or desirable either for the Performance Units to be exempt from the application of Section 409A or to satisfy the requirements of Section 409A, including by adding conditions with respect to the vesting and/or the payment of the Performance Units, provided that no such amendment may change the Program's "performance goals," within the meaning of Section

162(m) of the Code, with respect to any person who is a “covered employee,” within the meaning of Section 162(m) of the Code.

9.3 No Contract for Employment. Nothing contained in this Program or in any document related to this Program or to any Award shall confer upon any Participant any right to continue as an employee or in the employ of the Company or an Affiliate or constitute any contract or agreement of employment for a specific term or interfere in any way with the right of the Company or an Affiliate to reduce such person’s compensation, to change the position held by such person or to terminate the employment of such person, with or without cause.

9.4 Nontransferability. No benefit payable under, or interest in, this Program shall be subject in any manner to anticipation, alienation, sale, transfer, assignment, pledge, encumbrance or charge and any such attempted action shall be void and no such benefit or interest shall be, in any manner, liable for, or subject to, debts, contracts, liabilities or torts of any Participant or beneficiary; *provided, however*, that, nothing in this Section 9.4 shall prevent transfer (i) by will, or (ii) by applicable laws of descent and distribution.

9.5 Compensation Subject to Recovery. The Awards under this Program and all compensation payable with respect to them shall be subject to recovery by the Company pursuant to any and all of the Company’s policies with respect to the recovery of compensation, as they shall be in effect and may be amended from time to time, to the maximum extent permitted by applicable law.

9.6 Nature of Program. No Participant, beneficiary or other person shall have any right, title or interest in any fund or in any specific asset of the Company or any Affiliate by reason of any award hereunder. There shall be no funding of any benefits which may become payable hereunder. Nothing contained in this Program (or in any document related thereto), nor the creation or adoption of this Program, nor any action taken pursuant to the provisions of this Program shall create, or be construed to create, a trust of any kind or a fiduciary relationship between the Company or an Affiliate and any Participant, beneficiary or other person. To the extent that a Participant, beneficiary or other person acquires a right to receive payment with respect to an Award hereunder, such right shall be no greater than the right of any unsecured general creditor of the Company or other employing entity, as applicable. All amounts payable under this Program shall be paid from the general assets of the Company or employing entity, as applicable, and no special or separate fund or deposit shall be established and no segregation of assets shall be made to assure payment of such amounts. Nothing in this Program shall be deemed to give any employee any right to participate in this Program except in accordance herewith.

9.7 Governing Law. This Program shall be construed in accordance with the laws of the State of Delaware, without giving effect to the principles of conflicts of law thereof.

Form of Award Notice

[The information set forth in this Award Notice will be contained on the related pages on Merrill Lynch Benefits Website (or the website of any successor company to Merrill Lynch Bank & Trust Co., FSB). This Award Notice shall be replaced by the equivalent pages on such website. References to Award Notice in this Agreement shall then refer to the equivalent pages on such website.]

This notice of Award (the "Award Notice") sets forth certain details relating to the grant by the Company to you of the Award identified below, pursuant to the Plan. The terms of this Award Notice are incorporated into the Agreement that accompanies this Award Notice and made part of the Agreement. Capitalized terms used in this Award Notice that are not otherwise defined in this Award Notice have the meanings given to such terms in the Agreement.

Employee:
Employee ID:
Address:
Award Type:
Grant ID:
Plan: Amgen Inc. Amended and Restated 2009 Equity Incentive Plan, as amended and/or restated from time to time
Program: Amgen Inc. 2009 Performance Award Program, as amended and/or restated from time to time
Grant Date:
Number of Shares:
Number of
Performance Units:
Performance Period: The Performance Period beginning on and ending on .
Resolutions: The Resolutions of the Compensation and Management Development Committee of the Board of Directors of Amgen Inc. establishing the performance goals and Performance Period applicable to this Award.
Vesting Date: Means the vesting date indicated in the Vesting Schedule
Vesting Schedule: Means the schedule of vesting set forth under Vesting Details
Vesting Details: Means the presentation (tabular or otherwise) of the Vesting Date and the quantity of Shares vesting.

IMPORTANT NOTICE REGARDING ACCEPTANCE OF THE AWARD AND THE REQUIREMENT TO OPEN A BROKERAGE ACCOUNT ¹:

RESIDENTS OF THE U.S. AND PUERTO RICO: Please read this Award Notice, the Plan and the Agreement (collectively, the "Grant Documents") carefully. If you, as a resident of the U.S. or Puerto Rico, do **not** wish to receive this Award and/or you do **not** consent and agree to the terms and conditions on which this Award is offered, as set forth in the Grant Documents, then you must reject the Award by contacting the Merrill Lynch call center (800) 97AMGEN (800-972-6436) within the U.S., Puerto Rico and Canada or +1 (609) 818-8910 from all other countries (Merrill Lynch will accept the charges for your call) no later than the forty-fifth calendar day following the day on which this Award Notice is made available to you, in which case the Award will be cancelled. For the purpose of determining the forty-five calendar days, Day 1 will be the day **immediately** following the day on which this Award Notice is made available to you. Your failure to notify the Company of your rejection of the Award within this specified period will constitute your acceptance of the Award and your agreement with all terms and conditions of the Award, as set forth in the Grant

ⁱ This provision is only for use on the form of grant used for the U.S. and Puerto Rico.

Documents. If you agree to the terms and conditions of your grant and you desire to accept it, then no further action is needed on your part to accept the grant. However, you must still open a brokerage account as directed by the Company, by 1:00 pm Pacific Time on or before the date that is 11 months after the date of grant. This step is necessary to process transactions related to your equity grant. **If you do not open a brokerage account by this deadline, your grant will be cancelled.**

PERFORMANCE UNIT AGREEMENT

THE SPECIFIC TERMS OF YOUR GRANT OF PERFORMANCE UNITS ARE FOUND IN THE PAGES RELATING TO THE GRANT OF PERFORMANCE UNITS FOUND ON MERRILL LYNCH BENEFITS WEBSITE (OR THE WEBSITE OF ANY SUCCESSOR COMPANY TO MERRILL LYNCH BANK & TRUST CO., FSB) (THE “AWARD NOTICE”) WHICH ACCOMPANIES THIS DOCUMENT. THE TERMS OF THE AWARD NOTICE ARE INCORPORATED INTO THIS PERFORMANCE UNIT AGREEMENT.

On the Grant Date specified in the Award Notice, Amgen Inc., a Delaware corporation (the “Company”), has granted to you, the grantee named in the Award Notice, under the Amgen Inc. Amended and Restated 2009 Equity Incentive Plan, as amended and/or restated from time to time (the “Plan”), the Number of Performance Units (the “Performance Units”) specified in the Award Notice on the terms and conditions set forth in this Performance Unit Agreement (and any applicable special terms and conditions for your country set forth in the attached Appendix A (as described in greater detail in Section XIV below)) (collectively, this “Agreement”), the Plan, the Amgen Inc. 2009 Performance Award Program, as amended and/or restated from time to time (the “Program”) and the Resolutions (as defined in the Award Notice). Capitalized terms not defined herein shall have the meanings assigned to such terms in the Program.

I. Performance Period. The Performance Period shall have the meaning set forth in the Award Notice.

II. Value of Performance Units. The value of each Performance Unit is equal to a share of Common Stock.

III. Performance Goals. An amount of the Performance Units up to the maximum amount specified in the Resolutions shall be earned, depending on the extent to which the Company achieves objectively determinable performance goals established by the Committee pursuant to the Resolutions. The Performance Units earned shall be calculated in accordance with the Resolutions and the Program.

IV. Form and Timing of Settlement. Subject to Section XIII and except as set forth in the Program, any Performance Units earned pursuant to Section III above shall be settled by the Company delivering to you a number of Shares equal to the number of Shares covered by this Award or in a lump sum in cash with a value equal to the Fair Market Value of the number of Shares subject to the earned Performance Units as of the last day of the Performance Period (without interest thereon), or in a combination of Shares and cash, as determined by the Administrator at any time prior to settlement and in its discretion, as soon as practicable, and in any event within 90 days, after the last day of the Performance Period, in each case, subject to the terms of the Program (including Section 4.2 thereof). Shares issued in respect of a Performance Unit shall be deemed to be issued in consideration of past services actually rendered by you to the Company or an Affiliate or for its benefit for which you have not previously been compensated or for future services to be rendered, as the case may be, which the Company deems to have a value at least equal to the aggregate par value thereof.

V. Issuance of Certificates; Tax Withholding. Regardless of any action the Company or your actual employer (the “Employer”) takes with respect to any or all income tax (including federal, state and local taxes), social insurance, payroll tax, fringe benefit tax, payment on account or other tax-related items related to your participation in the Plan and the Program and legally applicable to you (the “Tax Obligations”), you acknowledge that the ultimate liability for all Tax Obligations is and remains your responsibility and may exceed the amount, if any, actually withheld by the Company and/or your Employer. You further acknowledge that the Company and/or your Employer (i) make no representations or undertakings regarding the treatment of any Tax Obligations in connection with any aspect of the Performance Units, including the grant of the Performance Units, the vesting of the Performance Units, the conversion of the Performance Units into shares or the receipt of an equivalent cash payment, the subsequent sale of any shares acquired at settlement and the receipt of any Dividends (as defined in Section VI, below); and (ii) do not commit to and are under no obligation to structure the terms of the grant or any aspect of the Performance Units to reduce or eliminate your liability for Tax Obligations or to achieve any particular tax result. Furthermore, if you become subject to tax in more than one jurisdiction, you acknowledge that the Company and/or your Employer (or former employer, as applicable) may be required to withhold or account for Tax Obligations in more than one jurisdiction.

Prior to any relevant taxable or tax withholding event, as applicable, you shall pay or make adequate arrangements satisfactory to the Company or to your Employer (in their sole discretion) to satisfy all Tax Obligations. In this regard, you authorize the Company and/ or your Employer, or their respective agents, at their discretion, to satisfy all applicable Tax Obligations by one or a combination of the following:

(a) withholding from your wages or other cash compensation paid to you by the Company and/or your Employer; or

(b) withholding from proceeds of the sale of Shares issued upon settlement of the Performance Units, either through a voluntary sale or through a mandatory sale arranged by the Company (on your behalf pursuant to this authorization); or

(c) withholding in Shares to be issued or cash to be paid upon settlement of the Performance Units provided that, if Shares are withheld, the Company and your Employer shall only withhold an amount of Shares with a fair market value equal to the Tax Obligations.

Depending on the withholding method, the Company may withhold or account for Tax Obligations by considering applicable minimum statutory withholding rates or other applicable withholding rates, including maximum applicable rates. If the Tax Obligations are satisfied by withholding in Shares, for tax purposes, you are deemed to have been issued the full number of shares subject to the earned Performance Units, notwithstanding that a number of Shares is held back solely for the purpose of paying the Tax Obligations due as a result of any aspect of your participation in the Plan (any Shares withheld by the Company hereunder shall not be deemed to have been issued by the Company for any purpose under the Plan and shall remain available for issuance thereunder).

Finally, you shall pay to the Company or your Employer any amount of Tax Obligations that the Company or your Employer may be required to withhold or account for as a result of your participation in the Plan and the Program that cannot be satisfied by the means previously described. You agree to take any further actions and to execute any additional documents as may be necessary to effectuate the provisions of this Section V. Notwithstanding Section IV above, the Company may refuse to issue or deliver the Shares or the proceeds of the sale of Shares if you fail to comply with your obligations in connection with the Tax Obligations.

VI. Dividend Equivalents

(a) Crediting of Dividend Equivalents. Subject to this Section VI, Dividend Equivalents shall be credited on each Performance Unit granted to you under this Agreement in the manner set forth in the remainder of this Section VI. If the Company declares one or more dividends or distributions (each, a “Dividend”) on its Common Stock with a record date which occurs during the period commencing on the Grant Date through and including the day immediately preceding the day the Shares subject to the Performance Units are issued to you, whether in the form of cash, Common Stock or other property, then, on the date such Dividend is paid to the Company’s stockholders, you shall be credited with an amount equal to the amount or fair market value of such Dividend which would have been payable to you if you held a number of Shares equal to the number of Performance Units granted to you on the Grant Date (including any previously credited Dividends which have been deemed to have been reinvested in Common Stock as provided by the next succeeding sentence), as of each such record date for each such Dividend (not including on any Performance Units which were previously paid or forfeited) as if each such amount had been reinvested in Common Stock as of the date of the payment of such Dividend (such accumulated dividends, the “Target Accumulated Dividends”). Each such Dividend Equivalent shall be deemed to have been reinvested in Common Stock as of the Dividend payment date. Dividend Equivalents shall be payable in full Shares, unless the Administrator determines, at any time prior to payment and in its discretion, that they shall be payable in cash. Dividend Equivalents payable with respect to fractional Shares shall be paid in cash.

(b) Treatment of Dividend Equivalents. Except as otherwise expressly provided in this Section VI any Dividend Equivalents credited to you shall be subject to all of the provisions of this Agreement which apply to the Performance Units with respect to which they have been credited and shall be payable, if at all, at the time and to the extent that the underlying Performance Unit becomes payable. Dividend Equivalents shall not be payable on any

Performance Units that do not vest, or are forfeited, pursuant to the terms of this Agreement. Dividend Equivalent rights and any amounts that may become distributable in respect thereof shall be treated separately from the Performance Units and the rights arising in connection therewith for purposes of the designation of time and form of payments required by Section 409A of the Internal Revenue Code of 1986, as amended (the “Code”) (together with any Department of Treasury regulations and other interpretive guidance issued thereunder, including without limitation any such regulations or other guidance that may be issued after the Grant Date, “Section 409A”).

VII. Nontransferability. No benefit payable under, or interest in, this Agreement or in the Shares that may become issuable to you hereunder shall be subject in any manner to anticipation, alienation, sale, transfer, assignment, pledge, encumbrance or charge and any such attempted action shall be void and no such benefit or interest shall be, in any manner, liable for, or subject to, your or your beneficiary’s debts, contracts, liabilities or torts; *provided, however*, nothing in this Section VII shall prevent transfer (i) by will or (ii) by applicable laws of descent and distribution.

VIII. No Contract for Employment. This Agreement is not an employment or service contract with the Company or an Affiliate and nothing in this Agreement shall be deemed to create in any way whatsoever any obligation on your part to continue in the employ or service of the Company or an Affiliate, or of the Company or an Affiliate to continue your employment or service with the Company or an Affiliate.

IX. Nature of Grant. In accepting the grant of Performance Units, you acknowledge, understand and agree that:

(a) the Plan and the Program are established voluntarily by the Company, are discretionary in nature and may be modified, amended, suspended or terminated by the Company at any time, as provided in the Plan and in the Program;

(b) the grant of the Performance Units is exceptional, voluntary and occasional and does not create any contractual or other right to receive future awards of Performance Units, or benefits in lieu of Performance Units, even if Performance Units have been awarded in the past;

(c) all decisions with respect to future awards, if any, will be at the sole discretion of the Company;

(d) your participation in the Plan and the Program is voluntary;

(e) the grant of Performance Units, the Shares subject to the Performance Units, and the income from and value of same, are not intended to replace any pension rights or compensation;

(f) neither the grant of Performance Units nor any provision of this Agreement, the Plan, the Program or the policies adopted pursuant to the Plan or Program confer upon you any right with respect to employment or continuation of current employment and shall not interfere with the ability of the Employer to terminate your employment or service relationship (if any) at any time;

(g) in the event that you are not an employee of the Company or any Affiliate, the Performance Units shall not be interpreted to form an employment contract or relationship with the Company or any Affiliate;

(h) the future value of the Shares that may be earned upon the end of the Performance Period is unknown, indeterminable, and cannot be predicted with certainty;

(i) in consideration of the grant of Performance Units hereunder, no claim or entitlement to compensation or damages arises from termination of Performance Units, and no claim or entitlement to compensation or damages shall arise from forfeiture of the Performance Units resulting from termination of your employment by the Company or an Affiliate (regardless of the reason for such termination and whether or not later found to be invalid or in breach of employment laws in the jurisdiction where you are employed or the terms of your employment agreement, if any) and you irrevocably release the Company and your Employer from any such claim that may arise; if,

notwithstanding the foregoing, any such claim is found by a court of competent jurisdiction to have arisen, you shall be deemed irrevocably to have waived your entitlement to pursue such claim;

(j) in the event of termination of your employment (regardless of the reason for such termination and whether or not later found to be invalid or in breach of employment laws in the jurisdiction where you are employed or the terms of your employment agreement, if any), your right to receive Performance Units and receive shares under the Plan and the Program, if any, will terminate effective as of the date that you are no longer actively employed and will not be extended by any notice period (*e.g.*, active employment would not include a period of “garden leave” or similar period mandated under employment laws in the jurisdiction where you are employed or the terms of your employment agreement, if any);

(k) unless otherwise agreed with the Company, the Performance Units, the Shares subject to the Performance Units, and the income from and value of same, are not granted as consideration for, or in connection with, the service you may provide as a director of an Affiliate of the Company;

(l) except as otherwise provided in this Agreement or the Plan, the Performance Units and the benefits evidenced by this Agreement do not create any entitlement to have the Performance Units or any such benefits transferred to, or assumed by, another company nor to be exchanged, cashed out or substituted for, in connection with any corporate transaction affecting the shares of the Company; and

(m) the following provisions apply only if you are providing services outside the United States:

(A) for employment law purposes outside the United States, the Performance Units, the Shares subject to the Performance Units, and the income from and value of same, are not part of normal or expected compensation or salary for any purpose, including but not limited to for purposes of calculating any severance, resignation, termination, redundancy, dismissal, end of service payments, bonuses, holiday pay, long-service awards, pension or retirement benefits or similar mandatory payments; and

(B) neither the Company, the Employer nor any Affiliate of the Company shall be liable for any foreign exchange rate fluctuation between your local currency and the United States Dollar that may affect the value of the Performance Units or of any amounts due to you pursuant to the settlement of the Performance Units or the subsequent sale of any Shares acquired upon settlement.

X. No Advice Regarding Grant. The Company is not providing any tax, legal or financial advice, nor is the Company making any recommendations regarding your participation in the Plan and the Program, or your acquisition or sale of the underlying Shares. You should consult with your personal tax, legal and financial advisors regarding your participation in the Plan and the Program before taking any action related thereto.

XI. Notices. Any notices provided for in this Agreement, the Plan or the Program shall be given in writing or electronically and shall be deemed effectively given upon receipt or, in the case of notices delivered by the Company to you, five (5) days after deposit in the United States mail or equivalent foreign postal service, postage prepaid, addressed to you at such address as is currently maintained in the Company’s records or at such other address as you hereafter designate by written notice to the Company Stock Administrator. Such notices may be given using any automated system for the documentation, granting or exercise of Awards, such as a system using an internet website or interactive voice response, as approved by the Company.

XII. Resolutions, Plan and Program. This Agreement is subject to all the provisions of the Resolutions, the Plan and the Program and their provisions are hereby made a part of this Agreement and incorporated herein by reference, including, without limitation, the provisions of Articles 5 and 9 of the Plan (relating to Performance-Based Compensation and Performance Awards, respectively) and Section 13.2 of the Plan (relating to adjustments upon changes in the Common Stock), and is further subject to all interpretations, amendments, rules and regulations which may from time to time be promulgated and adopted pursuant to the Plan. In the event of any conflict between the provisions of this Agreement and those of the Resolutions, the Plan and the Program, the provisions of the Plan shall control. Notwithstanding any provision of this Agreement or the Program to the contrary, any earned Performance

Units paid in cash rather than Shares shall not be deemed to have been issued by the Company for any purpose under the Plan.

XIII. Code Section 409A. The time and form of payment of the Performance Units is intended to comply with the requirements of Section 409A and this Agreement shall be interpreted in accordance with Section 409A. Accordingly, no acceleration or deferral of any payment shall be permitted if it would cause the payment of the Performance Units to violate Section 409A. In addition, notwithstanding any provision herein to the contrary, in the event that following the Grant Date, the Committee determines that it may be necessary or appropriate to do so, the Committee may adopt such amendments to the Plan, Program and/or this Agreement or adopt other policies and procedures (including amendments, policies and procedures with retroactive effect), or take any other actions, that the Committee determines are necessary or appropriate to (a) exempt the Plan, Program and/or the Performance Units from the application of Section 409A and/or preserve the intended tax treatment of the benefits provided with respect to this Award, or (b) comply with the requirements of Section 409A; *provided, however*, that this paragraph shall not create an obligation on the part of the Committee to adopt any such amendment, policy or procedure or take any such other action; *provided, further*, that no such amendment may change the Program's "performance goals," within the meaning of Section 162(m) of the Code, with respect to any person who is a "covered employee," within the meaning of Section 162(m) of the Code. No payment hereunder shall be made to you during the six (6)-month period following your "separation from service" (within the meaning of Section 409A) to the extent that the Company determines that paying such amount at the time set forth herein would be a prohibited distribution under Section 409A(a)(2)(B)(i). If the payment of any such amounts is delayed as a result of the previous sentence, then within thirty (30) days following the end of such six (6)-month period (or, if earlier, your death), the Company shall pay to you (or to your estate) the cumulative amounts that would have otherwise been payable to you during such period, without interest.

XIV. Provisions Applicable to Participants in Foreign Jurisdictions. Notwithstanding any provision of this Agreement or the Program to the contrary, if you are employed by the Company or an Affiliate in any of the countries identified in the attached Appendix A (which constitutes a part of this Agreement), are subject to the laws of any foreign jurisdiction, or relocate to one of the countries included in the attached Appendix A, your award of Performance Units shall be subject to any special terms and conditions for such country set forth in Appendix A and to the following additional terms and conditions:

(a) the terms and conditions of this Agreement, including Appendix A, are deemed modified to the extent necessary or advisable to comply with applicable foreign laws or facilitate the administration of the Plan and the Program;

(b) if applicable, the effectiveness of your Award is conditioned upon its compliance with any applicable foreign laws, regulations, rules or local governmental regulatory exemption and subject to receipt of any required foreign regulatory approvals;

(c) to the extent necessary to comply with applicable foreign laws, the payment of any earned Performance Units shall be made in cash or Common Stock, at the Company's election; and

(d) the Committee may take any other action, before or after an award of Performance Units is made, that it deems necessary or advisable to obtain approval or comply with any necessary local governmental regulatory exemptions or approvals.

Notwithstanding anything to the contrary contained herein, the Company shall not take any actions hereunder, and no Award of Performance Units shall be granted, and no Shares payable with respect to an Award shall be issued, that would violate the Securities Act, the Exchange Act, the Code, or any other securities or tax or other applicable law or regulation, or the rules of any Securities Exchange. Notwithstanding anything to the contrary contained herein, no Shares issuable with respect to an Award shall be issued unless such shares are then registered under the Securities Act, or, if such shares are not then so registered, the Company has determined that such issuance would be exempt from the registration requirements of the Securities Act and that the issuance satisfied all other applicable legal requirements.

XV. **Data Privacy.** *You hereby expressly consent to the collection, use and transfer, in electronic or other form, of your personal data as described in this Agreement for the exclusive purpose of implementing, administering and managing your participation in the Plan and the Program. In order for the Company and your Employer to facilitate your participation in the Plan and the Program, the Company and your Employer must collect and use personal data about you. In accordance with applicable laws, reasonable security measures will be implemented and maintained to protect the security of your personal data; however, you understand that absolute security cannot be guaranteed.*

You understand that the Company and your Employer may hold certain personal information about you, including your name, home address and telephone number, email address, date of birth, social insurance number (to the extent permitted under applicable local law), passport or other identification number, salary, nationality, job title/work history/service periods, residency status, citizenship, tax withholding and payroll data, any shares of stock or directorships held in the Company, details of all equity compensation or any other entitlement to Shares awarded, cancelled, vested, unvested or outstanding in your favor, for the purposes of implementing, administering and managing the Plan (“personal data”).

You authorize the transfer of your personal data to Merrill Lynch Bank & Trust Co., FSB (or any successor thereto), and any other third parties which may assist the Company (presently or in the future) with implementing, administering and managing your participation in the Plan and the Program to receive, possess, use, retain and transfer your personal data, in electronic or other form, for the purposes of implementing, administering and managing your participation in the Plan and the Program, including any requisite transfer of such personal data as may be required to a broker, escrow agent or other third party with whom the shares received in settlement of the Performance Units may be deposited. You understand that such authorized recipients of your personal data may be located in countries that do not provide the same level of data privacy laws and protections as the country in which your personal data originated. Where permitted by applicable law, you may, at any time, request access or correction to, or destruction or data portability of your personal data by contacting in writing your local human resources representative. You understand that the only consequence of refusing or withdrawing your consent is the Company would not be able to grant you Units or other equity awards or administer or maintain such awards. Your participation in the Plan and the Program is entirely voluntary. Your employment status or service with the Employer will not be affected if you do not consent. For more information on the consequences of your refusal to consent or withdrawal of consent, you understand that you may contact your local human resources representative.

XVI. **Language.** By electing to accept this Agreement, you acknowledge that you are sufficiently proficient in English to understand the terms and conditions of this Agreement. Furthermore, if you have received this Agreement or any other document related to the Plan and/or the Program translated into a language other than English and if the meaning of the translated version is different than the English version, the English version will control.

XVII. **Governing Law and Venue.** The terms of this Agreement shall be governed by the laws of the State of Delaware without giving effect to principles of conflicts of laws. For purposes of litigating any dispute that arises hereunder, the parties hereby submit to and consent to the jurisdiction of the State of Delaware, and agree that such litigation shall be conducted in the courts of the State of Delaware, or the federal courts for the United States for the federal district located in the State of Delaware, and no other courts, where this Agreement is made and/or to be performed.

XVIII. **Severability.** If one or more of the provisions of this Agreement shall be held invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby and the invalid, illegal or unenforceable provisions shall be deemed null and void; however, to the extent permissible by law, any provisions which could be deemed null and void shall first be construed, interpreted or revised retroactively to permit this Agreement to be construed so as to foster the intent of this Agreement and the Plan.

XIX. **Electronic Delivery and Acceptance.** The Company may, in its sole discretion, decide to deliver any documents related to current or future participation in the Plan and/or the Program (including this Agreement) by electronic means. You hereby consent to receive such documents by electronic delivery and agree to participate in the

Plan through an on-line or electronic system established and maintained by the Company or another third party designated by the Company.

XX. Imposition of Other Requirements. The Company reserves the right to impose other requirements on your participation in the Plan and the Program, on the Performance Units and on any Shares acquired under the Plan and the Program, to the extent the Company determines it is necessary or advisable for legal or administrative reasons, and to require you to sign any additional agreements or undertakings that may be necessary to accomplish the foregoing.

XXI. Waiver. You acknowledge that a waiver by the Company of breach of any provision of this Agreement shall not operate or be construed as a waiver of any other provision of this Agreement, or of any subsequent breach by you or any other grantee.

XXII. Headings. This Agreement’s section headings are for convenience only and shall not constitute a part of this Agreement or affect this Agreement’s meaning.

Very truly yours,
AMGEN INC.

By: _____

Name:
Title:

Accepted and Agreed,
this ___ day of _____, 20__.

By: _____
Name: _____

APPENDIX A

**ADDITIONAL TERMS AND CONDITIONS OF THE
AMENDED AND RESTATED
AMGEN INC. 2009 EQUITY INCENTIVE PLAN,
AS AMENDED AND/OR RESTATED FROM TIME TO TIME**

**AWARD OF PERFORMANCE UNITS
(BY COUNTRY)**

Certain capitalized terms used but not defined in this Appendix A shall have the meanings set forth in the Plan and/or the Agreement to which this Appendix is attached.

TERMS AND CONDITIONS

This Appendix includes additional terms and conditions that govern any Performance Units granted under the Plan if, under applicable law, you are a resident of, are deemed to be a resident of or are working in one of the countries listed below. Furthermore, the additional terms and conditions that govern the Performance Units granted hereunder may apply to you if you transfer employment and/or residency to one of the countries listed below and the Company shall, in its discretion, determine to what extent the terms and conditions contained herein shall apply to you.

NOTIFICATIONS

This Appendix also includes notifications relating to exchange control and other issues of which you should be aware with respect to your participation in the Plan. The information is based on the exchange control, securities and other laws in effect in the countries to which this Appendix refers as of October 2017. Such laws are often complex and change frequently. As a result, the Company strongly recommends that you not rely on the notifications herein as the only source of information relating to the consequences of your participation in the Plan because the information may be outdated when you acquire Shares under the Plan, or when you subsequently sell Shares acquired under the Plan and the Program.

In addition, the notifications are general in nature and may not apply to your particular situation, and the Company is not in a position to assure you of any particular result. Accordingly, you should seek appropriate professional advice as to how the relevant laws in your country may apply to your situation. Finally, if you are a citizen or resident of a country other than the one in which you are currently residing and/or working or are considered a resident of another country for local law purposes, the information contained herein may not be applicable to you or you may be subject to the provisions of one or more jurisdictions.

ALL NON-U.S. JURISDICTIONS**NOTIFICATIONS**

Insider Trading Restrictions/Market Abuse Laws. You may be subject to insider trading restrictions and/or market abuse laws based on the exchange on which the Shares are listed and in applicable jurisdictions including the United States and your country or your broker's country, if different, which may affect your ability to accept, acquire, sell or otherwise dispose of Shares, rights to Shares (*e.g.*, Performance Units) or rights linked to the value of Shares (*e.g.*, Dividend Equivalents) during such times as you are considered to have "inside information" regarding the Company (as defined by the laws in applicable jurisdictions). Local insider trading laws and regulations may prohibit the cancellation or amendment of orders you place before you possessed inside information. Furthermore you could be prohibited from (i) disclosing the inside information to any third party, which may include fellow employees (other than on a "need to know" basis) and (ii) "tipping" third parties or causing them otherwise to buy or sell securities. Any restrictions under these laws or regulations are separate from and in addition to any restrictions that may be imposed under any applicable Company insider trading policy. You are responsible for ensuring your compliance with any applicable restrictions and you should speak with your personal legal advisor on this matter.

Foreign Asset/Account, Tax Reporting Information. Your country of residence may have certain foreign asset and/or account reporting requirements which may affect your ability to acquire or hold Shares under the Plan or cash received from participating in the Plan (including from any Dividends or Dividend Equivalents received, or sale proceeds arising from the sale of Shares) in a brokerage or bank account outside of your country. You may be required to report such accounts, assets or transactions to the tax or other authorities in your country. You are responsible for ensuring your compliance with such regulations, and you should speak with your personal legal advisor on this matter.

ARGENTINA

TERMS AND CONDITIONS

Labor Law Acknowledgement. The following provision supplements Section IX of the Agreement:

In accepting the grant of Performance Units, you acknowledge, understand and agree that the grant of the Performance Units is made by the Company (not the Employer) in its sole discretion and that the value of the Performance Units or any Shares acquired under the Plan shall not constitute salary or wages for any purpose under Argentine labor law including, but not limited to, the calculation of (i) any labor benefits including, without limitation, vacation pay, thirteenth salary, compensation in lieu of notice, annual bonus, disability, and leave of absence payments, etc., or (ii) any termination or severance indemnities or similar payments.

NOTIFICATIONS

Securities Law Information. Neither the Performance Units nor the underlying Shares are publicly offered or listed on any stock exchange in Argentina. The offer is private and not subject to the supervision of any Argentine governmental authority.

Exchange Control Information. Exchange control regulations in Argentina are subject to frequent change. You should consult with your personal legal advisor regarding any exchange control obligations that you may have prior to receiving proceeds from Dividend Equivalents, the sale of Shares or dividends. You must comply with any and all Argentine currency exchange restrictions, approvals and reporting requirements in connection with your participation in the Plan and the Program.

AUSTRALIA

NOTIFICATIONS

Australia Offer Document. The offer of the Award is intended to comply with the provisions of the Corporations Act 2001, ASIC Regulatory Guide 49 and ASIC Class Order CO 14/1000. Additional details are set forth in the Offer Document for the Offer of Performance Units to Australian Resident Employees.

Tax Information. Subdivision 83A-C of the Income Tax Assessment Act 1997 (Cth) applies to the Performance Units granted under the Plan, such that the Performance Units are intended to be subject to deferred taxation.

Exchange Control Information. If you are an Australian resident, exchange control reporting is required for cash transactions exceeding AUD10,000 and for international fund transfers. If an Australian bank is assisting with the transaction, the bank will file the report on your behalf. If there is no Australian bank involved in the transfer, you will be required to file the report.

AUSTRIA**NOTIFICATIONS**

Exchange Control Information. If you are an Austrian resident and you hold Shares acquired under the Plan and the Program outside of Austria, you must submit a report to the Austrian National Bank. An exemption applies if the value of the Shares as of any given quarter does not meet or exceed €30,000,000 or if the value of the Shares in any given year as of December 31 does not meet or exceed €5,000,000. If the former threshold is exceeded, quarterly obligations are imposed, whereas if the latter threshold is exceeded, annual reports must be given. The quarterly reporting date is as of the last day of the respective quarter and the deadline for filing the quarterly report is the 15th day of the month following the end of the respective quarter. The annual reporting date is December 31 and the deadline for filing the annual report is January 31 of the following year.

A separate reporting requirement applies when you sell Shares acquired under the Plan and the Program, receive a cash Dividend paid on such Shares or Dividend Equivalents paid in cash. In that case, there may be exchange control obligations if the cash proceeds are held outside of Austria. If the transaction volume of all cash accounts abroad meets or exceeds €10,000,000, the movements and balances of all accounts must be reported monthly, as of the last day of the month, on or before the 15th day of the following month, on the prescribed form (*Meldungen SI-Forderungen und/oder SI-Verpflichtungen*).

BELGIUM**NOTIFICATIONS**

Tax Reporting; Foreign Asset/Account Reporting Information. If you are a Belgian resident, you are required to report any taxable income attributable to the Award granted hereunder on your annual tax return. You are also required to report any securities (*e.g.*, Shares acquired under the Plan and the Program) held and bank accounts (including brokerage accounts) opened and maintained outside of Belgium on your annual tax return. In a separate report, you are required to provide the National Bank of Belgium with the account details of any such foreign accounts (including the account number, bank name and country in which such account was opened). This report, as well as information on how to complete it, can be found on the website of the National Bank of Belgium, www.nbb.be, under the *Kredietcentrales / Centrales des crédits* caption.

BRAZIL**TERMS AND CONDITIONS**

Compliance with Law. By accepting the Performance Units, you acknowledge that you agree to comply with applicable Brazilian laws and pay any and all applicable taxes associated with the vesting of the Performance Units, the sale of Shares acquired under the Plan and the Program, the payment of Dividends on such Shares and the receipt of any Dividend Equivalents paid in cash.

Nature of Grant. This provision supplements Section IX of the Agreement:

In accepting the grant of Performance Units, you acknowledge (i) that you are making an investment decision, (ii) that the Shares will be issued to you only if the vesting conditions are met and any necessary services are rendered by you during the vesting period set forth in the Vesting Schedule, and (iii) that the value of the underlying Shares is not fixed and may increase or decrease in value over the vesting period without compensation to you.

NOTIFICATIONS

Exchange Control Information. If you are resident or domiciled in Brazil, you will be required to submit annually a declaration of assets and rights held outside of Brazil to the Central Bank of Brazil if the aggregate value of such assets and rights equals or exceeds US\$100,000. If such amount exceeds US\$100,000,000, the referenced declaration

must be submitted quarterly. Assets and rights that must be reported include the following: (i) bank deposits; (ii) loans; (iii) financing transactions; (iv) leases; (v) direct investments; (vi) portfolio investments, including Shares acquired under the Plan and the Program; (vii) financial derivatives investments; and (viii) other investments, such as real estate. Please note that foreign individuals holding Brazilian visas are considered Brazilian residents for purposes of this reporting requirement and must declare at least the assets held abroad that were acquired subsequent to the date of admittance as a resident of Brazil. Individuals holding assets and rights outside of Brazil valued at less than US\$100,000 are not required to submit a declaration.

BULGARIA

Foreign Asset/Account Reporting Information. You will be required to annually file statistical forms with the Bulgarian National Bank regarding your receivables in bank accounts abroad as well as your securities abroad (e.g., Shares acquired under the Plan) if the total sum of all such receivables and securities equals or exceeds BGN 50,000 as of the previous calendar year-end. The reports are due by March 31. You should contact your bank in Bulgaria for additional information regarding this requirement.

CANADA

TERMS AND CONDITIONS

Termination of Service. This provision supplements Section IX(j) of the Agreement:

in the event of involuntary termination of your employment (regardless of the reason for such termination and whether or not later found to be invalid or in breach of employment laws in the jurisdiction where you are employed or the terms of your employment agreement, if any), your right to receive an Award and vest in such Award under the Plan and the Program, if any, will terminate effective as of the date that is the earlier of: (1) the date you receive notice of termination of employment from the Company or your Employer, or (2) the date you are no longer actively employed by the Company or your Employer regardless of any notice period or period of pay in lieu of such notice required under local law (including, but not limited to statutory law, regulatory law and/or common law). Your right, if any, to acquire Shares pursuant to an Award after termination of employment will be measured by the date of termination of your active employment and will not be extended by any notice period mandated under local law;

Form of Settlement - Performance Units Payable Only in Shares. Notwithstanding any discretion in Section 9.5 of the Plan or the Program or anything to the contrary in the Agreement, the Award does not provide any right for you, as a resident of Canada, to receive a cash payment and shall be paid in Shares only.

The following provisions will apply to you if you are a resident of Quebec:

Language Consent. The parties acknowledge that it is their express wish that the Agreement, as well as all documents, notices, and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English.

Les parties reconnaissent avoir exigé la rédaction en anglais de cette convention (« Agreement »), ainsi que de tous documents, avis et procédures judiciaires, exécutés, donnés ou intentés en vertu de, ou liés directement ou indirectement à, la présente convention.

Data Privacy Notice. This provision supplements Section XV of the Agreement:

You hereby authorize the Company and the Company's representative to discuss with and obtain all relevant information from all personnel (professional or not) involved in the administration and operation of the Plan and the Program. You further authorize the Company and your Employer to disclose and discuss your participation in the Plan with their advisors. You also authorize the Company and your Employer to record such information and keep it in your employee file.

NOTIFICATIONS

Securities Law Information. You are permitted to sell Shares acquired through the Plan through the designated broker appointed under the Plan, if any, provided that the resale of such Shares takes place outside of Canada through the facilities of a stock exchange on which the Shares are listed (e.g., the NASDAQ Global Select Market).

Foreign Asset/Account Reporting Information. Specified foreign property, including Shares, stock options and other rights to receive Shares (e.g., Performance Units) of a non-Canadian company held by a Canadian resident employee generally must be reported annually on a Form T1135 (Foreign Income Verification Statement) if the total cost of the employee's specified foreign property exceeds C\$100,000 at any time during the year. Thus, such stock options and Performance Units must be reported – generally at nil cost – if the C\$100,000 cost threshold is exceeded because other specified foreign property is held by the employee. When Shares are acquired, their cost generally is the adjusted cost base ("ACB") of the Shares. The ACB ordinarily would equal the fair market value of the Shares at the time of acquisition, but if the employee owns other shares of the same company, this ACB may have to be averaged with the ACB of the other shares.

CHINA**TERMS AND CONDITIONS**

The following terms apply only to individuals who are subject to exchange control restrictions in the People's Republic of China (the "PRC"), as determined by the Company in its sole discretion:

Vesting of the Performance Units. Notwithstanding anything to the contrary in Article 7.1 of the Program, if your employment with the Company or an Affiliate terminates at any time during the Performance Period, you shall forfeit all Performance Units.

Sale Requirement. Notwithstanding anything to the contrary in the Agreement, due to exchange control laws in the PRC, you agree that the Company reserves the right to require the immediate sale of any Shares acquired upon settlement of the Performance Units. You understand and agree that any such immediate sale of Shares will occur as soon as is practical following settlement of the Performance Units. Alternatively, if the Shares are not immediately sold upon settlement of the Performance Units, the Company will require the sale of any Shares you may then hold within six (6) months (or such other period as may be required under applicable legal or exchange control requirements) following the termination of your employment with the Company, including its Affiliates.

You agree that the Company is authorized to instruct Merrill Lynch Bank & Trust Co., FSB or such other designated broker as may be selected by the Company to assist with the sale of the Shares on your behalf pursuant to this authorization, and you expressly authorize such broker to complete the sale of such Shares. You also agree to sign any agreements, forms and/or consents that may be reasonably requested by the Company (or the Company's designated broker) to effectuate the sale of the Shares (including, without limitation, as to the transfers of the proceeds and other exchange control matters noted below) and to otherwise cooperate with the Company with respect to such matters, provided that you shall not be permitted to exercise any influence over how, when or whether the sales occur. Upon the sale of the Shares, you will receive the cash proceeds from the sale, less any applicable Tax Obligations, brokerage fees or commissions, in accordance with applicable exchange control laws and regulations.

You acknowledge that Merrill Lynch Bank & Trust Co., FSB or such other designated broker as may be selected by the Company is under no obligation to arrange for the sale of the Shares at any particular price. Due to fluctuations in the Share price and/or applicable exchange rates between the settlement date and (if later) the date on which the Shares are sold, the amount of proceeds ultimately distributed to you may be more or less than the market value of the Shares on the settlement date (which is the amount relevant to determining your liability for Tax Obligations). You understand and agree that the Company is not responsible for the amount of any loss that you may incur and that the Company assumes no liability for any fluctuations in the Share price and/or any applicable exchange rate.

Designated Broker Account. If Shares issued upon the settlement of the Performance Units are not immediately sold, you acknowledge that you are required to maintain the Shares in an account with Merrill Lynch Bank & Trust Co., FSB or such other designated broker as may be selected by the Company until the Shares are sold through such Company-designated broker.

Exchange Control Requirements. You understand and agree that, pursuant to local exchange control requirements, you will be required to repatriate the cash proceeds from the sale of the Shares issued upon settlement of the Performance Units and from the receipt of any Dividends or Dividend Equivalents to China. You further understand that, under applicable laws, such repatriation of your cash proceeds will need to be effectuated through a special exchange control account established by the Company or any Affiliate, including the Employer, and you hereby consent and agree that any proceeds may be transferred to such special account prior to being delivered to you. You also understand that the Company will deliver the proceeds to you as soon as possible, but that there may be delays in distributing the funds to you due to exchange control requirements in China. Proceeds may be paid to you in U.S. dollars or local currency at the Company's discretion. If the proceeds are paid to you in U.S. dollars, you will be required to set up a U.S. dollar bank account in China so that the proceeds may be deposited into this account. If the proceeds are paid to you in local currency, the Company is under no obligation to secure any particular currency conversion rate and the Company may face delays in converting the proceeds to local currency due to exchange control restrictions. You further agree to comply with any other requirements that may be imposed by the Company in the future in order to facilitate compliance with exchange control requirements in China.

COLOMBIA

NOTIFICATIONS

Securities Law Information. The Shares are not and will not be registered with the Colombian registry of publicly traded securities (*Registro Nacional de Valores y Emisores*) and therefore the Shares may not be offered to the public in Colombia. Nothing in this document should be construed as the making of a public offer of securities in Colombia.

Exchange Control Information. Investment in assets located abroad (such as Shares acquired under the Plan and the Program) does not require prior approval from the Central Bank (Banco de la República). Nonetheless, such investments are subject to exchange control regulations. If you are a Colombian resident and the value of your aggregate investments held abroad (including Shares) equals or exceeds US\$500,000 as of December 31 of the applicable calendar year, these investments must be registered with the Central Bank. Upon the sale or other disposition of investments (including Shares, Dividends and Dividend Equivalents) which have been registered with the Central Bank, the registration with the Central Bank must be cancelled no later than March 31 of the year following the year of the sale or disposition (or a fine of up to 200% of the value of the infringing payment will apply). When investments held abroad are sold or otherwise disposed of, regardless of whether they have been registered with the Central Bank, Colombian residents must repatriate the proceeds to Colombia by selling currency to a Colombian bank and filing the appropriate form.

CROATIA

NOTIFICATIONS

Exchange Control Information. Croatian residents may be required to report any foreign investments (including Shares acquired under the Plan and the Program) to the Croatian National Bank for statistical purposes. You should be aware that exchange control regulations in Croatia are subject to frequent change and you are solely responsible for ensuring your continued compliance with current Croatian exchange control laws.

CZECH REPUBLIC

NOTIFICATIONS

Foreign Asset/Account Reporting Information. Proceeds from the sale of Shares, any Dividends paid on such Shares or Dividend Equivalents may be held in a cash account abroad and you are no longer required to report the opening

and maintenance of a foreign account to the Czech National Bank (the “CNB”), unless the CNB notifies you specifically that such reporting is required. Upon request of the CNB, you may need to file a notification within fifteen (15) days of the end of the calendar quarter in which you acquire Shares.

DENMARK

TERMS AND CONDITIONS

Danish Stock Option Act. In accepting the Performance Units, you acknowledge that you have received an Employer Statement translated into Danish, which is being provided to comply with the Danish Stock Option Act. To the extent more favorable to you and required to comply with the Stock Option Act, the terms set forth in the Employer Statement will apply to your participation in the Plan and the Program.

NOTIFICATIONS

Foreign Asset/Account Reporting Information. If you establish an account holding Shares or an account holding cash outside of Denmark, you must report the account to the Danish tax authorities. The form which should be used in this respect can be obtained from a local bank. (These obligations are separate from and in addition to the obligations described below.)

Securities/Tax Reporting Information. If you hold Shares acquired under the Plan and the Program in a brokerage account with a broker or bank (the “depository”) outside of Denmark, you are required to inform the Danish tax authorities about the account by signing and filing a Form V (*Erklaering V*). It is only necessary to submit a Form V the first time securities are deposited with a depository outside of Denmark. However, if the securities are transferred to a different depository or if you begin using a new depository, a new Form V will be required.

The depository may sign a statement according to which the depository undertakes an obligation, without further request, to forward certain information concerning the Shares on an annual basis to the Danish tax authorities. However, if the depository does not agree to sign such a statement, you will be personally responsible for submitting the required information as an attachment to your annual income tax return. By signing the Form V, you authorize the Danish tax authorities to examine the account. Generally, the Form V must be submitted by the depository no later than on February 1 of the year following the calendar year to which the information relates. However, if you are responsible for submitting the required information, you must submit it as an attachment to your annual income tax return. A sample of Form V can be found at the following website: www.skat.dk.

In addition, if you open a brokerage or bank account with a U.S. bank, the account will be treated as a “deposit account” because cash can be held in the account. Therefore, you also must file a Form K (*Erklaering K*) with the Danish tax authorities. By signing the Form K, you authorize the Danish tax authorities to examine the account. A separate form must be submitted for each account held outside of Denmark that holds Shares or cash which are taxable in Denmark. A sample of Form K can be found at the following website: www.skat.dk.

EGYPT

NOTIFICATIONS

Exchange Control Information. If you transfer funds into Egypt in connection with the Performance Units, you are required to transfer the funds through a registered bank in Egypt.

FINLAND

There are no country-specific provisions.

FRANCE**TERMS AND CONDITIONS**

Language Consent. By accepting the Award, you confirm having read and understood the Plan and Agreement which were provided in the English language. You accept the terms of these documents accordingly.

Consentement Relatif à la Langue Utilisée. En acceptant l'prix, vous confirmez avoir lu et compris le Plan et le Contrat, qui ont été communiqués en langue anglaise. Vous acceptez les termes de ces documents en connaissance de cause.

NOTIFICATIONS

Foreign Asset/Account Reporting Information. French residents and non-residents must declare to the Customs Authorities the cash and securities they import or export without the use of a financial institution when the value of such cash or securities exceeds €10,000. French residents also must report all foreign bank and brokerage accounts on an annual basis (including accounts opened or closed during the tax year) on a specific form together with the income tax return. Failure to comply could trigger significant penalties.

GERMANY**NOTIFICATIONS**

Exchange Control Information. Cross-border payments in excess of €12,500 must be reported monthly to the German Federal Bank (*Bundesbank*). In case of payments in connection with securities (including proceeds realized upon the sale of Shares or the receipt of Dividends or Dividend Equivalents), the report must be made by the 5th day of the month following the month in which the payment was received and must be filed electronically. The form of report (*Allgemeines Meldeportal Statistik*) can be accessed via the Bundesbank's website (www.bundesbank.de) and is available in both German and English. You are responsible for satisfying any applicable reporting obligation.

GREECE

There are no country-specific provisions.

HONG KONG**TERMS AND CONDITIONS**

Form of Settlement - Performance Units Payable Only in Shares. Notwithstanding any discretion in Section 9.5 of the Plan or the Program or anything to the contrary in the Agreement, the Award does not provide any right for you, as a resident of Hong Kong, to receive a cash payment and shall be paid in Shares only.

Sale of Shares. Shares received at vesting are accepted as a personal investment. In the event that Shares are issued in respect of Performance Units within six (6) months of the Grant Date, you agree that you will not offer to the public or otherwise dispose of such shares prior to the six (6)-month anniversary of the Grant Date.

NOTIFICATIONS

SECURITIES WARNING: *The contents of this document have not been reviewed by any regulatory authority in Hong Kong. You should exercise caution in relation to the offer. If you are in doubt about any of the contents of the Agreement, including this Appendix, or the Plan, you should obtain independent professional advice. The Performance Units and any Shares issued in respect of the Performance Units do not constitute a public offering of securities under Hong Kong law and are available only to members of the Board and Employees. The Agreement, including this Appendix, the Plan and other incidental communication materials have not been prepared in accordance with and are not intended*

to constitute a “prospectus” for a public offering of securities under the applicable securities legislation in Hong Kong. The Performance Units and any documentation related thereto are intended solely for the personal use of each member of the Board and/or Employee and may not be distributed to any other person.

HUNGARY

There are no country-specific provisions.

ICELAND

NOTIFICATIONS

Exchange Control Information. Approval by the Central Bank of Iceland is no longer required to participate in the Plan and the Program, regardless of the value of the Shares acquired under the Plan and the Program. Despite the recent relaxation of the exchange control requirements, you should consult with your personal advisor to ensure compliance with applicable exchange control regulations in Iceland as such regulations are subject to frequent change. You are responsible for ensuring compliance with all exchange control laws in Iceland.

INDIA

NOTIFICATIONS

Exchange Control Information. You understand that you must repatriate any cash Dividends paid on Shares acquired under the Plan and the Program to India or any Dividend Equivalents paid in cash within one hundred and eighty (180) days of receipt, and the Program and any proceeds from the sale of Shares acquired under the Plan and the Program to India within ninety (90) days of receipt, or such other period of time as may be required under applicable regulations. You will receive a foreign inward remittance certificate (“FIRC”) from the bank where you deposit the foreign currency, and you must maintain the FIRC as proof of repatriation of funds in the event that the Reserve Bank of India or the Employer requests proof of repatriation. It is your responsibility to comply with these requirements.

Foreign Asset/Account Reporting Information. You are required to declare foreign bank accounts and any foreign financial assets (including Shares held outside of India) in your annual tax return. It is your responsibility to comply with this reporting obligation and you should consult your personal tax advisor in this regard.

IRELAND

TERMS AND CONDITIONS

Nature of Grant. This provision supplements Section IX of the Agreement:

In accepting the grant of Performance Units, you acknowledge that the benefits received under the Plan will not be taken into account for any redundancy or unfair dismissal claim.

ITALY

TERMS AND CONDITIONS

Data Privacy Notice. The following provision replaces Section XV of the Agreement:

Pursuant to Section 13 of Legislative Decree no. 196/2003, you understand that the Employer, the Company and any Affiliate may hold certain personal information about you, including, but not limited to, your name, home address and telephone number, email address, date of birth, social insurance (to the extent permitted under Italian law), passport or other identification number, salary, nationality, job title/work history/service periods, residency status, citizenship, tax withholding and payroll data, any shares or directorships held in the Company or any Affiliate,

details of all Awards granted, or any other entitlement to Shares awarded, cancelled, exercised, vested, unvested or outstanding in your favor, for the exclusive purpose of implementing, managing and administering the Plan and the Program (“Data”).

You also understand that providing the Company with Data is necessary for the performance of the Plan and the Program, which represents the legal basis for the collection, use, processing and transfer of the Data, and that your refusal to provide such Data would make it impossible for the Company to perform its contractual obligations and may affect your ability to participate in the Plan and the Program. The Controller of personal data processing is Amgen Inc., with registered offices at One Amgen Center Drive, Thousand Oaks, California 91320, U.S.A., and, pursuant to Legislative Decree no. 196/2003, its Representative in Italy for privacy purposes is Amgen S.r.L., with registered offices at Via Tazzoli, 6 – 20154 Milan, Italy.

You understand that Data will not be publicized, but it may be transferred to banks, other financial institutions, or brokers involved in the management and administration of the Plan and the Program. You understand that Data may also be transferred to the independent registered public accounting firm engaged by the Company. You further understand that the Company and/or any Affiliate will transfer Data among themselves as necessary for the purposes of implementing, administering and managing your participation in the Plan and the Program, and that the Company and/or any Affiliate may each further transfer Data to third parties assisting the Company in the implementation, administration, and management of the Plan and the Program, including any requisite transfer of Data to a broker or other third party with whom you may elect to deposit any Shares issued in respect of the Award. Such recipients may receive, possess, use, retain, and transfer Data in electronic or other form, for the purposes of implementing, administering, and managing your participation in the Plan and the Program. You understand that these recipients may be located in or outside of the European Economic Area, such as in the United States or elsewhere. Should the Company exercise its discretion in suspending all necessary legal obligations connected with the management and administration of the Plan and the Program, it will delete Data as soon as it has completed all the necessary legal obligations connected with the management and administration of the Plan and the Program.

You understand that Data processing related to the purposes specified above shall take place under automated or non-automated conditions, anonymously when possible, that comply with the purposes for which Data is collected and with confidentiality and security provisions, as set forth by applicable laws and regulations, with specific reference to Legislative Decree no. 196/2003.

The processing activity, including communication, the transfer of Data abroad, including outside of the European Economic Area, as herein specified and pursuant to applicable laws and regulations, does not require your consent thereto, as the processing is necessary to performance of contractual obligations related to implementation, administration, and management of the Plan. You understand that, pursuant to Section 7 of the Legislative Decree no. 196/2003, you have the right to, including but not limited to, access, delete, update, correct, or terminate, for legitimate reason, the Data processing. You also understand that you have the right to data portability and to lodge a complaint with the Italian supervisory authority.

Furthermore, you are aware that Data will not be used for direct-marketing purposes. In addition, Data provided can be reviewed and questions or complaints can be addressed by contacting your local human resources representative.

Nature of Grant. In accepting the grant of Performance Units, you acknowledge that (1) you have received a copy of the Plan, the Program, the Agreement and this Appendix; (2) you have reviewed the applicable documents in their entirety and fully understand the contents thereof; and (3) you accept all provisions of the Plan, the Program, the Agreement and this Appendix.

You further acknowledge that you have read and specifically and explicitly approve, without limitation, the following sections of the Agreement: Section III, Section IV, Section V, Section IX, Section IV, Section XV (as replaced by the above notice), Section XVI and Section XX.

NOTIFICATIONS

Foreign Asset/Account Reporting Information. Italian residents who, at any time during the fiscal year, hold foreign financial assets (including cash and Shares) which may generate income taxable in Italy are required to report these assets on their annual tax returns (UNICO Form, RW Schedule) for the year during which the assets are held, or on a special form if no tax return is due. These reporting obligations will also apply to Italian residents who are the beneficial owners of foreign financial assets under Italian money laundering provisions.

Foreign Financial Assets Tax. The fair market value of any Shares held outside of Italy is subject to a foreign assets tax. The market value is considered to be the value of the Shares on the NASDAQ Global Select Market on December 31 of the applicable year in which you held the Shares (or when the Shares are acquired during the course of the year, the tax is levied in proportion to the actual days of holding over the calendar year). You should consult with your personal tax advisor about the foreign financial assets tax.

JAPAN**NOTIFICATIONS**

Foreign Asset/Account Reporting Information. You will be required to report to the Japanese tax authorities details of any assets held outside of Japan as of December 31st (including any Shares acquired under the Plan and the Program) to the extent such assets have a total net fair market value exceeding ¥50,000,000. Such report will be due by March 15 each year. You should consult with your personal tax advisor as to whether the reporting obligation applies to you and whether you will be required to include in the report details of any Shares or cash that you hold.

JORDAN

There are no country-specific provisions.

KOREA**NOTIFICATIONS**

Foreign Asset/Account Reporting Information. You are required to declare all foreign financial accounts (e.g. non-Korean bank accounts, brokerage accounts holding Shares, etc.) to the Korean tax authority and file a report regarding such accounts if the monthly balance of such accounts exceeds KRW1,000,000,000 (or an equivalent amount in foreign currency) on any month-end date during a calendar year. It is your responsibility to comply with this reporting obligation and you should consult your personal tax advisor to ensure compliance with this requirement.

LATVIA

There are no country-specific provisions.

LEBANON

Securities Law Information. The Plan does not constitute the marketing or offering of securities in Lebanon pursuant to Law No. 161 (2011), the Capital Markets Law. Offerings under the Plan are being made only to eligible Employees of the Employer, the Company or an Affiliate.

LITHUANIA

There are no country-specific provisions.

MEXICO**TERMS AND CONDITIONS**

Acknowledgement of the Grant. In accepting the Award granted hereunder, you acknowledge that you have received a copy of the Plan and the Program, have reviewed the Plan and the Program and the Agreement, including this Appendix, in their entirety and fully understand and accept all provisions of the Plan, the Program and the Agreement, including this Appendix. You further acknowledge that you have read and specifically and expressly approve the terms and conditions of Section IX of the Agreement, in which the following is clearly described and established:

- (1) Your participation in the Plan and the Program do not constitute an acquired right.
- (2) The Plan and your participation in the Plan and the Program are offered by Amgen Inc. on a wholly discretionary basis.
- (3) Your participation in the Plan and the Program is voluntary.
- (4) Amgen Inc. and its Affiliates are not responsible for any decrease in the value of any Shares issued with respect to the Award.

Labor Law Acknowledgement and Policy Statement. In accepting any Award granted hereunder, you expressly recognize that Amgen Inc., with registered offices at One Amgen Center Drive, Thousand Oaks, California 91320, U.S.A., is solely responsible for the administration of the Plan and that your participation in the Plan and acquisition of Shares do not constitute an employment relationship between you and Amgen Inc. since you are participating in the Plan on a wholly commercial basis and your sole employer is Amgen Mexico S.A. de C.V. ("Amgen-Mexico"). Based on the foregoing, you expressly recognize that the Plan and the Program and the benefits that you may derive from participation in the Plan and the Program do not establish any rights between you and your Employer, Amgen-Mexico, and do not form part of the employment conditions and/or benefits provided by Amgen-Mexico and any modification of the Plan or its termination shall not constitute a change or impairment of the terms and conditions of your employment.

You further understand that your participation in the Plan and the Program is as a result of a unilateral and discretionary decision of Amgen Inc.; therefore, Amgen Inc. reserves the absolute right to amend and/or discontinue your participation in the Plan at any time without any liability to you.

Finally, you hereby declare that you do not reserve to yourself any action or right to bring any claim against Amgen Inc. for any compensation or damages regarding any provision of the Plan or the benefits derived under the Plan, and you therefore grant a full and broad release to Amgen Inc., its Affiliates, shareholders, officers, agents or legal representatives with respect to any claim that may arise.

Spanish Translation

Reconocimiento del Otorgamiento. Al aceptar cualquier Otorgamiento de Acciones bajo el presente documento, usted reconoce que ha recibido una copia del Plan y del Programa, que ha revisado el Plan y el Programa, así como también el Apéndice en su totalidad, además que comprende y está de acuerdo con todas las disposiciones tanto del Plan, del Programa y del Otorgamiento, incluyendo este Apéndice. Asimismo, usted reconoce que ha leído y manifiesta específicamente y expresamente la conformidad con los términos y condiciones establecidos en la Sección IX del Acuerdo del Otorgamiento, en los que se establece y describe claramente que:

- (1) Su participación en el Plan y en el Programa de ninguna manera constituye un derecho adquirido.
- (2) Su participación en Plan y en el Programa son ofrecidos por Amgen Inc. de forma completamente discrecional.
- (3) Su participación en el Plan y en el Programa es voluntaria.

(4) Amgen Inc. y sus Afiliados no son responsables de ninguna disminución en el valor de las Acciones Comunes emitidas mediante el Plan.

Reconocimiento de la Ley Laboral y Declaración de Política. Al aceptar cualquier Otorgamiento bajo el presente, usted reconoce expresamente que Amgen Inc., con oficinas registradas localizadas en One Amgen Center Drive, Thousand Oaks, California 91320, U.S.A., es la única responsable de la administración del Plan y que su participación en el mismo y la adquisición de Acciones Comunes no constituyen de ninguna manera una relación laboral entre usted y Amgen Inc., debido a que su participación en el Plan es únicamente una relación comercial y que su único empleador es Amgen Mexico S.A. de C.V. ("Amgen-Mexico"). Derivado de lo anterior, usted reconoce expresamente que el Plan y el Programa y los beneficios a su favor que pudieran derivar de la participación en el mismo, no establecen ningún derecho entre usted y su empleador, Amgen – México, y no forman parte de las condiciones laborales y/o los beneficios otorgados por Amgen – México, y cualquier modificación del Plan o la terminación del mismo no constituirá un cambio o desmejora de los términos y condiciones de su trabajo.

Asimismo, usted entiende que su participación en el Plan y en el Programa es resultado de la decisión unilateral y discrecional de Amgen Inc., por lo tanto, Amgen Inc. se reserva el derecho absoluto de modificar y/o discontinuar su participación en el Plan en cualquier momento y sin ninguna responsabilidad para usted.

Finalmente, usted manifiesta que no se reserva ninguna acción o derecho que origine una demanda en contra de Amgen Inc., por cualquier compensación o daños y perjuicios, en relación con cualquier disposición del Plan o de los beneficios derivados del mismo, y en consecuencia usted exime amplia y completamente a Amgen Inc. de toda responsabilidad, como así también a sus Afiliadas, accionistas, directores, agentes o representantes legales con respecto a cualquier demanda que pudiera surgir.

NETHERLANDS

NOTIFICATIONS

Securities Law Information.

**Attention! This investment falls outside AFM supervision.
No prospectus required for this activity.**



NORWAY

There are no country-specific provisions.

POLAND

NOTIFICATIONS

Exchange Control Information. Polish residents holding foreign securities (including Shares) and maintaining accounts abroad must file reports with the National Bank of Poland if the aggregate value of Shares and cash held in such foreign accounts exceeds PLN 7,000,000. If required, the reports are due on a quarterly basis by the 20th day following the end of each quarter and must be filed on special forms available on the website of the National Bank of Poland. In addition, Polish residents are required to transfer funds through a bank account in Poland if the transferred amount in any single transaction exceeds a specified threshold (currently €15,000 (or PLN 15,000 if such transfer of funds is associated with the business activity of a consultant)). You must store all documents connected with any foreign exchange transactions you engage in for a period of five (5) years from the end of the year when such transactions were made. Penalties may apply for failure to comply with exchange control requirements.

PORTUGAL**TERMS AND CONDITIONS**

Consent to Receive Information in English. You hereby expressly declare that you have full knowledge of the English language and have read, understood and fully accepted and agreed with the terms and conditions established in the Plan, the Program and Agreement.

Conhecimento da Língua. *Por meio do presente, eu declaro expressamente que tem pleno conhecimento da língua inglesa e que li, compreendi e livremente aceitei e concordei com os termos e condições estabelecidas no Plano, no Programa e no Acordo.*

PUERTO RICO

There are no country-specific provisions.

ROMANIA**NOTIFICATIONS**

Exchange Control Information. Any transfer of money exceeding €15,000 (whether via one transaction or several transactions that appear to be linked to each other) must be reported to the National Office for Prevention and Control of Money Laundering on specific forms by the relevant bank or financial institution. If you deposit proceeds from the sale of Shares or the receipt of Dividends or Dividend Equivalents in a bank account in Romania, you may be required to provide the Romanian bank assisting with the transaction with appropriate documentation explaining the source of the income. You should consult with a legal advisor to determine whether you will be required to submit such documentation to the Romanian bank.

RUSSIA**TERMS AND CONDITIONS**

Exchange Control Requirements. You understand and agree that, pursuant to Russian exchange control requirements, you will be required to repatriate to Russia the cash proceeds from the sale of the Shares issued to you upon settlement of the Performance Units and from the receipt of any Dividend Equivalents paid on such Shares, unless such proceeds will be paid into and held in your brokerage account in the U.S., for example, for reinvestment purposes. As an express statutory exception to this requirement, cash Dividends (but not Dividend Equivalents) paid on Shares can be paid directly into a foreign bank or brokerage account opened with a foreign bank located in Organisation for Economic Co-operation and Development (“**OECD**”) or Financial Action Task Force (“**FATF**”) countries, without first remitting them to a bank account in Russia. As of January 1, 2018, cash proceeds from the sale of Shares listed on one of the foreign stock exchanges on the list provided for by the Russian Federal law “On the Securities Market” (such as Shares acquired under the Plan) can also be paid directly to a foreign bank or brokerage account opened with a bank located in an OECD or FATF country. Other statutory exceptions may apply, and you should consult with your personal legal advisory in this regard.

Without limiting the generality of the foregoing, you acknowledge that the Company reserves the right, in its sole discretion, depending on developments in Russian exchange control laws and regulations, to force the immediate sale of any Shares to be issued in settlement of the Award granted hereunder. You further agree that, if applicable, the Company is authorized to instruct Merrill Lynch Bank & Trust Co., FSB (or such other broker as may be designated by the Company) to assist with the mandatory sale of such Shares (on your behalf pursuant to this authorization) and you expressly authorize Merrill Lynch Bank & Trust Co., FSB (or such other broker as may be designated by the Company) to complete the sale of such Shares. You further acknowledge that Merrill Lynch Bank & Trust Co., FSB (or such other broker as may be designated by the Company) is under no obligation to arrange for the sale of the Shares

at any particular trading price. Upon the sale of Shares, you will receive the cash proceeds from the sale of such Shares, less any brokerage fees or commissions and subject to your obligations in connection with the Tax Obligations.

Securities Law Requirements. The Award granted hereunder, the Agreement, including this Appendix, the Program, the Plan and all other materials you may receive regarding your participation in the Plan and the Program or the Award granted hereunder do not constitute advertising or an offering of securities in Russia. The issuance of Shares in respect of the Award has not and will not be registered in Russia; therefore, such shares may not be offered or placed in public circulation in Russia.

In no event will Shares acquired under the Plan and the Program be delivered to you in Russia; all Shares will be maintained on your behalf in the United States.

You are not permitted to sell any Shares acquired under the Plan and the Program directly to a Russian legal entity or resident.

Labor Law Acknowledgement. You acknowledge that if you continue to hold Shares acquired under the Plan and the Program after an involuntary termination of your employment, you will not be eligible to receive unemployment benefits in Russia.

Data Privacy Notice. The following provision supplements Section XV of the Agreement:

You understand and agree that you must complete and return a Consent to Processing of Personal Data (the “Consent”) form to the Company. Further, you understand and agree that if you do not complete and return a Consent form to the Company, the Company will not be able to administer or maintain the Performance Units. Therefore, you understand that refusing to complete a Consent form or withdrawing your consent may affect your ability to participate in the Plan.

NOTIFICATIONS

Foreign Asset/Account Reporting Information. Russian residents are required to notify Russian tax authorities within one (1) month of opening, closing or changing the details of a foreign account. Russian residents also are required to report (i) the beginning and ending balances in such a foreign bank account each year and (ii) transactions related to such a foreign account during the year to the Russian tax authorities, on or before June 1 of the following year. The tax authorities can require you to provide appropriate supporting documents related to transactions in a foreign bank account. You are encouraged to contact your personal advisor before remitting your proceeds from participation in the Plan to Russia as exchange control requirements may change.

Anti-Corruption Legislation Information. Individuals holding public office in Russia, as well as their spouses and dependent children, may be prohibited from opening or maintaining a foreign brokerage or bank account and holding any securities, whether acquired directly or indirectly, in a foreign company (including Shares acquired under the Plan and the Program). You should consult with your personal legal advisor to determine whether this restriction applies to your circumstances.

SINGAPORE

TERMS AND CONDITIONS

Restriction on Sale and Transferability. You hereby agree that any Shares acquired pursuant to the Performance Units will not be offered for sale in Singapore prior to the six-month anniversary of the Grant Date, unless such sale or offer is made pursuant to one or more exemptions under Part XIII Division 1 Subdivision (4) (other than section 280) of the Securities and Futures Act (Chap. 289, 2006 Ed.) (“SFA”).

NOTIFICATIONS

Securities Law Information. The grant of the Performance Units is being made pursuant to the “Qualifying Person” exemption under section 273(1)(f) of the SFA, on which basis it is exempt from the prospectus and registration requirements under the SFA, and is not made with a view to the Performance Units being subsequently offered for sale to any other party. The Plan has not been lodged or registered as a prospectus with the Monetary Authority of Singapore.

Chief Executive Officer and Director Notification Requirement. The Chief Executive Officer (“CEO”) and the directors (including alternate, substitute, associate and shadow directors) of a Singapore Affiliate are subject to certain notification requirements under the Singapore Companies Act. The CEO and directors of a Singapore Affiliate must notify the Singapore Affiliate in writing of an interest (*e.g.*, Performance Units, Shares, etc.) in the Company or any related company within two (2) business days of (i) its acquisition or disposal, (ii) any change in a previously disclosed interest (*e.g.*, when the Shares are sold), or (iii) becoming the CEO or a director.

SLOVAK REPUBLIC

There are no country-specific provisions.

SLOVENIA

There are no country-specific provisions.

SPAIN**TERMS AND CONDITIONS**

Labor Law Acknowledgement. The following provision supplements Section IX of the Agreement:

By accepting the Award granted hereunder, you consent to participation in the Plan and the Program and acknowledge that you have received a copy of the Plan and the Program.

You understand that the Company has unilaterally, gratuitously and in its sole discretion decided to grant the Award under the Plan and the Program to individuals who may be members of the Board or Employees of the Company or its Affiliates throughout the world. The decision is a limited decision that is entered into upon the express assumption and condition that the Awards granted will not economically or otherwise bind the Company or any of its Affiliates on an ongoing basis, other than as expressly set forth in the applicable Agreement, including this Appendix. Consequently, you understand that the Award granted hereunder is given on the assumption and condition that it shall not become a part of any employment contract (either with the Company or any of its Affiliates) and shall not be considered a mandatory benefit, salary for any purposes (including severance compensation) or any other right whatsoever. Further, you understand and freely accept that there is no guarantee that any benefit whatsoever shall arise from any gratuitous and discretionary grant of the Award since the future value of the Award and any Shares that may be issued in respect of such Award is unknown and unpredictable. In addition, you understand that the Award granted hereunder would not be made but for the assumptions and conditions referred to above; thus, you understand, acknowledge and freely accept that, should any or all of the assumptions be mistaken or should any of the conditions not be met for any reason, then the grant of the Award or right to the Award shall be null and void.

Further, the vesting of the Performance Units is expressly conditioned your continued and active rendering of service, such that if your employment terminates for any reason whatsoever, the Performance Units may cease vesting immediately, in whole or in part, effective on the date of your termination of employment (unless otherwise specifically provided in Section I of the Agreement). This will be the case, for example, even if (1) you are considered to be unfairly dismissed without good cause (*i.e.*, subject to a “despido improcedente”); (2) you are dismissed for disciplinary or objective reasons or due to a collective dismissal; (3) you terminate service due to a change of work location, duties or any other employment or contractual condition; (4) you terminate service due to a unilateral breach of contract by the Company or an Affiliate; or (5) your employment terminates for any other reason whatsoever. Consequently, upon

termination of your employment for any of the above reasons, you may automatically lose any rights to Performance Units that were not vested on the date of your termination of employment, as described in the Plan and the Agreement.

You acknowledge that you have read and specifically accept the conditions referred to in Section I of the Agreement.

NOTIFICATIONS

Securities Law Information. No “offer of securities to the public,” as defined under Spanish law, has taken place or will take place in the Spanish territory. The Agreement (including this Appendix) has not been nor will it be registered with the *Comisión Nacional del Mercado de Valores*, and does not constitute a public offering prospectus.

Exchange Control Information. If you acquire Shares under the Plan, you must declare the acquisition to the *Dirección General de Comercio e Inversiones* (“*DGCI*”). If you acquire the Shares through the use of a Spanish financial institution, that institution will automatically make the declaration to the *DGCI* for you; otherwise, you will be required to make the declaration by filing a D-6 form. You must declare ownership of any Shares with the *DGCI* each January while the Shares are owned and must also report, in January, any sale of Shares that occurred in the previous year for which the report is being made, unless the sale proceeds exceed the applicable threshold, in which case the report is due within one (1) month of the sale.

Foreign Asset/Account Reporting Information. You are required to declare electronically to the Bank of Spain any securities accounts (including brokerage accounts held abroad), as well as the Shares held in such accounts if the value of the transactions during the prior tax year or the balances in such accounts as of December 31 of the prior tax year exceed €1,000,000.

To the extent that you hold Shares and/or have bank accounts outside of Spain with a value in excess of €50,000 (for each type of asset) as of December 31 each year, you will be required to report information on such assets in your tax return (tax form 720) for such year. After such Shares and/or accounts are initially reported, the reporting obligation will apply for subsequent years only if the value of any previously-reported Shares or accounts increases by more than €20,000 or if you sell or otherwise dispose of previously-reported Shares or accounts. If the value of such Shares and/or accounts as of December 31 does not exceed €50,000, a summarized form of declaration may be presented.

SWEDEN

There are no country-specific provisions.

SWITZERLAND

NOTIFICATIONS

Securities Law Information. The Awards are not intended to be publicly offered in or from Switzerland. Because this is a private offering in Switzerland, the Performance Units are not subject to registration in Switzerland. Neither this document nor any other materials relating to the Performance Units (i) constitutes a prospectus as such term is understood pursuant to article 652a of the Swiss Code of Obligations, (ii) may be publicly distributed nor otherwise made publicly available in Switzerland or (iii) have been or will be filed with, approved or supervised by any Swiss regulatory authority, including the Swiss Financial Market Supervisory Authority (“*FINMA*”).

TAIWAN

NOTIFICATIONS

Exchange Control Information. You may acquire and remit foreign currency (including proceeds from the sale of Shares or the receipt of Dividends or Dividend Equivalents) up to US\$5,000,000 per year without justification. If the transaction amount is TWD500,000 or more in a single transaction, you must submit a Foreign Exchange Transaction

Form. If the transaction amount is US\$500,000 or more in a single transaction, you must also provide supporting documentation to the satisfaction of the remitting bank.

THAILAND

NOTIFICATIONS

Exchange Control Information. If proceeds from the sale of Shares or the receipt of any Dividends or Dividend Equivalents exceed US\$50,000, you must (i) immediately repatriate such funds to Thailand and (ii) report the inward remittance to the Bank of Thailand on a Foreign Exchange Transaction Form. In addition, within three hundred and sixty (360) days of repatriation, you must either convert any funds repatriated to Thailand to Thai Baht or deposit the funds in a foreign exchange account with a Thai bank.

TURKEY

NOTIFICATIONS

Securities Law Information. The Performance Units are made available only to employees of the Company and its Affiliates, and the offer of participation in the Plan is a private offering. The grant of the Award and the issuance of Shares at vesting takes place outside of Turkey.

Exchange Control Information. Any activity related to investments in foreign securities (*e.g.*, the sale of Shares under the Plan, the receipt of cash Dividends or Dividend Equivalents paid in cash) must be conducted through a bank or financial intermediary institution licensed by the Turkish Capital Markets Board and should be reported to the Turkish Capital Markets Board by the bank or intermediary assisting with the transaction. You should contact a personal legal advisor for further information regarding these requirements.

UNITED ARAB EMIRATES

NOTIFICATIONS

Securities Law Information. Performance Units under the Plan are available only to Participants under the Program and are for the purpose of providing equity incentives. The Plan, the Program and the Agreement are intended for distribution only to such Participants and must not be delivered to, or relied on by, any other person. You should conduct your own due diligence on the Performance Units offered pursuant to this Agreement. If you do not understand the contents of the Plan and/or the Agreement, you should consult an authorized financial adviser. The Emirates Securities and Commodities Authority and the Dubai Financial Services Authority have no responsibility for reviewing or verifying any documents in connection with the Plan. Further, the Ministry of the Economy and the Dubai Department of Economic Development have not approved the Plan or the Agreement nor taken steps to verify the information set out therein, and have no responsibility for such documents.

UNITED KINGDOM

TERMS AND CONDITIONS

Tax Withholding. This provision supplements Section V of the Agreement:

Without limitation to Section V of the Agreement, you agree that you are liable for all Tax Obligations and hereby covenant to pay all such Tax Obligations as and when requested by the Company or your Employer or by Her Majesty's Revenue and Customs ("HMRC") (or any other tax authority or any other relevant authority). You also agree to indemnify and keep indemnified the Company and your Employer against any taxes that they are required to pay or withhold or have paid or will pay to HMRC (or any other tax authority or any other relevant authority) on your behalf.

Notwithstanding the foregoing, if you are an executive officer or director (as within the meaning of Section 13(k) of the Exchange Act, as amended, from time to time), you understand that you may not be able to indemnify the Company or your Employer for the amount of income tax not collected from or paid by you, as it may be considered a loan. In the event that you are an executive officer or director and income tax is not collected from within ninety (90) days after the end of the tax year in which the Taxable Event occurs, the amount of any uncollected income tax may constitute an additional benefit to you on which additional income tax and national insurance contributions (“NICs”) may be payable. You acknowledge that you are responsible for reporting and paying any income tax due on this additional benefit directly to HMRC under the self-assessment regime and for reimbursing your Employer for the value of any NICs due on this additional benefit, which the Company or the Employer may recover from you by any of the means set forth in Section V of the Agreement.

If the maximum applicable withholding rate is used, any over-withheld amount may be credited to you by the Company or your Employer (with no entitlement to the Common Stock equivalent) or if not so credited, you may seek a refund from the local tax authorities.

Joint Election. As a condition of the Award, you agree to accept any liability for secondary Class 1 National Insurance Contributions (the “Employer NICs”) which may be payable by the Company or your Employer with respect to the earning and/or payment of the Performance Units and issuance of Shares in respect of the Performance Units, the assignment or release of the Performance Units for consideration or the receipt of any other benefit in connection with the Performance Units.

Without limitation to the foregoing, you agree to make an election (the “Election”), in the form specified and/or approved for such election by HMRC, that the liability for your Employer NICs payments on any such gains shall be transferred to you to the fullest extent permitted by law. You further agree to execute such other elections as may be required between you and any successor to the Company and/or your Employer. You hereby authorize the Company and your Employer to withhold such Employer NICs by any of the means set forth in Section V of the Agreement.

Failure by you to enter into an Election, withdrawal of approval of the Election by HMRC or a joint revocation of the Election by you and the Company or your Employer, as applicable, shall be grounds for the forfeiture and cancellation of the Performance Units, without any liability to the Company or your Employer.

UNITED STATES

TERMS AND CONDITIONS

Nature of Grant. The following provision replaces Section IX(j) of the Award Agreement:

(j) in the event of termination of your employment (whether or not in breach of local labor laws), your right to receive Performance Units and receive Shares under the Plan and the Program, if any, will terminate effective as of the date that you are no longer actively employed; *provided, however*, that such right will be extended by any notice period mandated by law (*e.g.*, the Worker Adjustment and Retraining Notification Act (“WARN Act”) notice period or similar periods pursuant to local law) and any paid administrative leave (as applicable), unless the Company shall provide you with written notice otherwise before the commencement of such notice period or leave. In such event, payment of the Performance Units shall be made in accordance with Section IV; *provided, further, however*, that notwithstanding the effect of any such extension, subject to Section 4.2 of the Program, in no event will the Performance Units be paid later than the 90th day following the last day of the Performance Period.

AMGEN INC. 2009 DIRECTOR EQUITY INCENTIVE PROGRAM
(Effective October 24, 2017)

As Amended and Restated October 24, 2017

ARTICLE I

PURPOSE

The purpose of this document is to set forth the general terms and conditions of the Amgen Inc. 2009 Director Equity Incentive Program (the "Program") established by the Board of Directors of Amgen Inc. (the "Company") including, with respect to certain awards granted to Non-Employee Directors of the Company hereunder, pursuant to the Company's 2009 Equity Incentive Plan, as amended and/or restated from time to time (the "2009 Plan"). The Program is intended to provide a means to reinforce and motivate the Non-Employee Directors of the Company to focus on sustained long-term performance and value creation by awarding each such Non-Employee Director (alternatively, each an "Eligible Director") stock or stock-based awards, subject to the restrictions and other provisions of the Program and, as applicable, the 2009 Plan. The Program originally became effective as of the date the 2009 Plan was initially approved by the Board of Directors of the Company, was amended and restated on December 13, 2012, was subsequently amended on March 6, 2013, and was amended and restated on October 24, 2017, with an effective date as of October 24, 2017 (the "Effective Date").

ARTICLE II

DEFINITIONS

Unless otherwise defined herein, capitalized terms used herein shall have the meanings assigned to such terms in the 2009 Plan.

"Alternate Payee" shall mean the spouse, former spouse or child of an Eligible Director.

"Award" shall mean a Restricted Stock Unit granted to an Eligible Director pursuant to the Program.

"Board" shall mean the Board of Directors of the Company.

"Cash Compensation Payment Date" shall mean each date that the Company makes an Eligible Periodic Cash Compensation payment to Eligible Directors who have not elected to defer such compensation pursuant to Section 3.2 of this Program or the Deferred Compensation Program.

"Code" shall mean the Internal Revenue Code of 1986, as amended from time to time, together with the regulations and official guidance promulgated thereunder.

"Common Stock" shall mean the common stock, par value \$0.0001 per share, of the Company.

"Deferred Compensation Plan" shall mean the Amgen Nonqualified Deferred Compensation Plan, as amended and/or restated from time to time.

"Eligible Director" shall mean a member of the Board who is not an employee of the Company or any Affiliate.

"Eligible Periodic Cash Compensation" shall mean the Board retainer, committee meeting fees and/or, if applicable, chair, lead independent director or other fees payable periodically to an Eligible Director by the Company for services performed as a member of the Board in respect of the applicable period to which such retainer and/or

fees relate, in each case, with respect to which no valid deferral election has been made under the Deferred Compensation Plan.

“Final Eligible Periodic Cash Compensation” shall mean the last Eligible Periodic Cash Compensation amount earned by a Participating Eligible Director (but not paid by the Company) prior to the date that such director retires from, or otherwise ceases to serve as a member of, the Board.

“Participating Eligible Director” shall mean an Eligible Director who, pursuant to Sections 3.2(e) or (f), has elected to receive deferred Restricted Stock Units in lieu of all or a portion of his or her Eligible Periodic Cash Compensation for a given calendar year or any remainder thereof, as applicable.

“QDRO” shall mean a domestic relations order as defined by the Code or Title I of the Employee Retirement Income Security Act of 1974, as amended from time to time, or the rules thereunder.

“Restricted Stock Unit” shall mean a restricted right to receive, on the applicable settlement date, a share of Common Stock or an amount in cash equal to the Fair Market Value of a share of Common Stock as of such settlement date, granted pursuant to Article III. For the avoidance of doubt, Restricted Stock Units may, but need not be, granted pursuant to the 2009 Plan.

ARTICLE III

RESTRICTED STOCK UNITS

3.1 (a) Annual Grants. On the date which is two business days after the release of the Company’s quarterly earnings for the first fiscal quarter of each year after the Effective Date (the “Annual Grant Date”), each person who is at that time an Eligible Director shall automatically be granted, without further action by the Company, the Board, or the Company’s stockholders, Restricted Stock Units to acquire a number of shares of Common Stock (rounded down to the nearest whole number) equal to the quotient obtained by dividing (x) \$200,000, by (y) the closing market price of a share of Common Stock on the date of grant (rounded to two decimal places) (such Restricted Stock Units, the “Annual RSU Award”). Notwithstanding the foregoing, each person who becomes an Eligible Director following the Annual Grant Date with respect to any year (such year, the “Initial Year”) shall automatically be granted, on the date which is two business days after the release of the Company’s quarterly or annual earnings for the Initial Year next following such person becoming an Eligible Director, and without further action by the Company, the Board, or the Company’s stockholders, a prorated Annual RSU Award (rounded down to the nearest whole number) for the Initial Year based on the number of months during which such person would serve as an Eligible Director during the Initial Year if the Eligible Director were to serve through the end of the Initial Year.

(b) Quarterly Grants in Lieu of Cash Compensation. A Participating Eligible Director shall automatically be granted, on the date which is two business days after the release of the Company’s quarterly earnings for the fiscal quarter most recently ending after the occurrence of each applicable Cash Compensation Payment Date (each such date of grant, a “Quarterly Grant Date”), Restricted Stock Unit awards as follows: (i) with respect to each such Eligible Periodic Cash Compensation amount other than Final Eligible Periodic Cash Compensation, deferred Restricted Stock Units to acquire a number of shares of Common Stock (rounded down to the nearest whole number) equal to the quotient obtained by dividing (x) the dollar value of such Eligible Periodic Cash Compensation amount by (y) the closing market price of a share of Common Stock on such Quarterly Grant Date (rounded to two decimal places), and (ii) with respect to Final Eligible Periodic Cash Compensation, a number of cash-settled deferred Restricted Stock Units equal to the quotient obtained by dividing (x) the dollar value of such Final Eligible Periodic Cash Compensation by (y) the closing market price of a share of Common Stock on such Quarterly Grant Date (rounded to two decimal places) (the “Cash-Settled RSUs” and, together with the Restricted Stock Units described in (i), the “Quarterly RSU Awards”). Each Cash-Settled RSU granted pursuant to Section 3.1(b)(ii) shall represent a restricted right to receive, on the applicable Deferred Payment Date (as defined in Section 3.2(d) below), an amount in cash per Restricted Stock Unit equal to the Fair Market Value of a share of Common Stock as of such Deferred Payment Date. For the avoidance of doubt, no portion of the Board retainer, committee meeting fees or, if applicable, chair, lead independent director or other fees payable to an Eligible Director by the Company for services performed

as a member of the Board with respect to which a valid deferral election has been made by such Eligible Director pursuant to the Deferred Compensation Plan shall constitute “Eligible Periodic Cash Compensation” hereunder. In the event of any conflict between the deferral elections made by an Eligible Director pursuant to the Deferred Compensation Plan and this Program, the deferral election made under the Deferred Compensation Plan shall control.

3.2 Terms of Restricted Stock Units.

(a) Restricted Stock Units, other than Cash-Settled RSUs, shall constitute Restricted Stock Units under Section 9.5 of the 2009 Plan. Cash-Settled RSUs granted pursuant to Section 3.1(b)(ii) hereof shall not be granted under, or subject to the terms of, the 2009 Plan. Each Restricted Stock Unit granted pursuant to this Program shall be in such form and shall contain such terms and conditions as the Board shall deem appropriate. The provisions of separate Restricted Stock Units need not be identical, but each Restricted Stock Unit shall include (through incorporation of provisions hereof by reference in the Restricted Stock Unit agreement or otherwise) the substance of each of the following provisions as set forth in this Section 3.2 and Section 9.5 of the 2009 Plan.

(b) Each grant of Restricted Stock Units made to an Eligible Director shall be fully vested as of the date of grant of such Restricted Stock Units (such date, “Vesting Date”).

(c) A holder’s vested Restricted Stock Units shall be paid by the Company in shares of Common Stock (on a one-to-one basis) on, or as soon as practicable after, the Vesting Date (the “Payment Date”), but in any event by the fifteenth day of the third month following the end of the tax year in which such Restricted Stock Units vest, unless the payment of such Restricted Stock Units has been properly deferred pursuant to this Section 3.2.

(d) With respect to an Eligible Director’s Annual RSU Award, such Eligible Director may irrevocably elect in writing by December 31 of the year preceding the grant of such Annual RSU Award to defer the payment of such Annual RSU Award, and any dividends paid thereon, to another date under one of the following options (a “Deferred Payment Date”), which payment form or forms shall be specified at the time of the deferral election: (i) full payment of the vested Restricted Stock Units in January of a year specified by the Eligible Director which shall be no earlier than the third calendar year following the calendar year in which the date of grant occurs and no later than the tenth calendar year following such year; (ii) full payment of the vested Restricted Stock Units in January of the calendar year following the year in which the Eligible Director with respect to whom the Restricted Stock Units were granted ceases to be an Eligible Director and ceases to otherwise provide services to the Company in a manner that constitutes a “separation from service” (within the meaning of Code Section 409A) for any reason; (iii) payment of the vested Restricted Stock Units in five substantially equal annual installments, commencing in January of the calendar year following the year in which the Eligible Director with respect to whom the Restricted Stock Units were granted ceases to be an Eligible Director and ceases to otherwise provide services to the Company in a manner that constitutes a “separation from service” (within the meaning of Code Section 409A) for any reason; or (iv) payment of the vested Restricted Stock Units in ten substantially equal annual installments, commencing in January of the calendar year following the year in which the Eligible Director with respect to whom the Restricted Stock Units were granted ceases to be an Eligible Director and ceases to otherwise provide services to the Company in a manner that constitutes a “separation from service” (within the meaning of Code Section 409A) for any reason.

(e) On or before December 31 of any year, an Eligible Director may irrevocably elect in writing to receive deferred Restricted Stock Units in lieu of all or a portion of his or her Eligible Periodic Cash Compensation earned during the year following the year of such election. In the event of such election, such Eligible Director shall be granted Quarterly RSU Awards pursuant to Section 3.1(b) hereof and, at the time of any such election, such Eligible Director shall further irrevocably elect in writing to defer the payment of such Quarterly RSU Award, and any dividends paid thereon, to a Deferred Payment Date in accordance with Section 3.2(d) hereof.

(f) Notwithstanding anything in Sections 3.2(d) or 3.2(e) to the contrary, any person who shall become an Eligible Director during any year, and who was not an Eligible Director on the preceding December 31, may elect within thirty (30) days after such person first becomes an Eligible Director to (i) defer payment of the portion of such Eligible Director’s Annual RSU Award earned during the remainder of such year and any dividends

paid thereon, to a Deferred Payment Date, and (ii) receive Restricted Stock Units in lieu of all or a portion of his or her Eligible Periodic Cash Compensation earned during the remainder of such year and granted as deferred Quarterly RSU Awards pursuant to Section 3.1(b) hereof, the payment of which (and any dividends paid thereon) shall be deferred to a Deferred Payment Date.

(g) In each case, any shares of Common Stock issued in respect of a Restricted Stock Unit shall be deemed to be issued in consideration for future services to be rendered or past services actually rendered to the Company or for its benefit, by the Eligible Director, which the Board deems to have a value not less than the par value of a share of Common Stock.

3.3 Dividend Equivalents.

(a) Crediting and Payment of Dividend Equivalents. Subject to this Section 3.3, Dividend Equivalents shall be credited on each Restricted Stock Unit granted to an Eligible Director under the Program in the manner set forth in the remainder of this Section 3.3. If the Company declares one or more dividends or distributions (each, a “Dividend”) on its Common Stock with a record date which occurs during the period commencing on the date of grant through and including the day immediately preceding the day the shares of Common Stock and/or the cash amount subject to the Restricted Stock Units are issued or paid to the Eligible Director, whether in the form of cash, Common Stock or other property, then on the date such Dividend is paid to the Company’s stockholders the Eligible Director shall be credited with an amount equal to the amount or fair market value of such Dividend which would have been payable to the Eligible Director if the Eligible Director held a number of shares of Common Stock equal to the number of the Eligible Director’s Restricted Stock Units as of the record date for such Dividend. Any such Dividend Equivalents, including Dividend Equivalents with respect to Cash-Settled RSUs, shall be credited and deemed reinvested in the Common Stock as of the Dividend payment date. Dividend Equivalents with respect to Quarterly RSU Awards other than Cash-Settled RSUs shall be payable in full shares of Common Stock, unless the Board determines, at any time prior to payment and in its discretion, that they shall be payable in cash, and Dividend Equivalents with respect to Cash-Settled RSUs granted pursuant to Section 3.1(b)(ii) hereof shall be payable in cash. Dividend Equivalents payable with respect to fractional shares of Common Stock shall be paid in cash.

(b) Treatment of Dividend Equivalents. Except as otherwise expressly provided in this Section 3.3, any Dividend Equivalents credited to an Eligible Director shall be subject to all of the provisions of the Program and the Restricted Stock Unit Agreement which apply to the Restricted Stock Units with respect to which they have been credited and shall be payable, if at all, at the time and to the extent that the underlying Restricted Stock Unit becomes payable.

ARTICLE IV

MISCELLANEOUS

4.1 Administration of the Program. The Program shall be administered by the Board and, to the extent permitted by applicable law or the rules of any Securities Exchange, the Board may delegate to a committee of one or more members of the Board the authority to administer the Program.

4.2 Application of 2009 Plan. The Program is subject to all of the provisions of the 2009 Plan, including Section 13.2 thereof (relating to adjustments upon changes in the Common Stock), and its provisions are hereby made a part of the Program, and is further subject to all interpretations, amendments, rules and regulations which may from time to time be promulgated and adopted pursuant to the 2009 Plan. In the event of any conflict between the provisions of this Program and those of the 2009 Plan, the provisions of the 2009 Plan shall control.

4.3 Amendment and Termination. Notwithstanding anything herein to the contrary, the Board may, at any time, terminate, modify or suspend the Program; *provided, however*, that, without the prior consent of the Eligible Directors affected, no such action may adversely affect any rights or obligations with respect to any Awards theretofore earned but unpaid, whether or not the amounts of such Awards have been computed and whether or not such Awards are then payable. Any amendment of this Program may, in the sole discretion of the Board, be accomplished in a manner calculated to cause such amendment not to constitute an “extension,” “renewal” or “modification” (each within the meaning of Code Section 409A) of any Restricted Stock Units that would cause such Restricted Stock Units to be considered “nonqualified deferred compensation” (within the meaning of Code Section 409A).

4.4 No Contract for Employment. Nothing contained in the Program or in any document related to the Program or to any Award shall confer upon any Eligible Director any right to continue as a director or in the service of the Company or an Affiliate or constitute any contract or agreement of service for a specific term or interfere in any way with the right of the Company or an Affiliate to reduce such person’s compensation or to remove, disqualify or otherwise terminate the service of such person, with or without cause.

4.5 Nontransferability.

(a) No benefit payable under, or interest in, this Program shall be subject in any manner to anticipation, alienation, sale, transfer, assignment, pledge, encumbrance or charge and any such attempted action shall be void and no such benefit or interest shall be, in any manner, liable for, or subject to, debts, contracts, liabilities or torts of any Eligible Director or beneficiary; *provided, however*, that, nothing in this Section 4.5 shall prevent transfer (i) by will, (ii) by applicable laws of descent and distribution or (iii) to an Alternate Payee to the extent that a QDRO so provides.

(b) The transfer to an Alternate Payee of an Award pursuant to a QDRO shall not be treated as having caused a new grant. If an Award is so transferred, the Alternate Payee generally has the same rights as the Eligible Director under the terms of the Program; *provided however*, that (i) the Award shall be subject to the same terms and conditions, including the vesting terms and termination provisions, as if the Award were still held by the Eligible Director, and (ii) such Alternate Payee may not transfer an Award, except transfer (1) by will or (2) by applicable laws of descent and distribution. In the event of the Company Stock Administrator’s receipt of a domestic relations order or other notice of adverse claim by an Alternate Payee of an Eligible Director of an Award, transfer of the proceeds of such Award, whether in the form of cash, stock or other property, may be suspended. Such proceeds shall thereafter be transferred pursuant to the terms of a QDRO or other agreement between the Eligible Director and Alternate Payee.

4.6 Nature of Program. No Eligible Director, beneficiary or other person shall have any right, title or interest in any fund or in any specific asset of the Company or any Affiliate by reason of any award hereunder. There shall be no funding of any benefits which may become payable hereunder. Nothing contained in this Program (or in any document related thereto), nor the creation or adoption of this Program, nor any action taken pursuant to the provisions of this Program shall create, or be construed to create, a trust of any kind or a fiduciary relationship between the Company or an Affiliate and any Eligible Director, beneficiary or other person. To the extent that an Eligible Director, beneficiary or other person acquires a right to receive payment with respect to an award hereunder, such right shall be no greater than the right of any unsecured general creditor of the Company or other employing entity, as applicable. All amounts payable under this Program shall be paid from the general assets of the Company or employing entity, as applicable, and no special or separate fund or deposit shall be established and no segregation of assets shall be made to assure payment of such amounts. Nothing in this Program shall be deemed to give any person any right to participate in this Program except in accordance herewith.

4.7 Governing Law. This Program shall be construed in accordance with the laws of the State of Delaware, without giving effect to the principles of conflicts of law thereof.

4.8 Code Section 409A. To the extent that this Program constitutes a “non-qualified deferred compensation plan” within the meaning of Code Section 409A and Department of Treasury regulations and other interpretive guidance issued thereunder, including without limitation any such regulations or other guidance that may be issued after the Effective Date, this Program shall be interpreted and operated in accordance with Code Section 409A. Notwithstanding any provision of this Program to the contrary, in the event that following the grant of any Restricted Stock Units, the Board determines that any Award does or may violate any of the requirements of Code Section 409A, the Board may adopt such amendments to the Program and any affected Award or adopt other policies and procedures (including amendments, policies and procedures with retroactive effect), or take any other actions, that the Board determines are necessary or appropriate to (a) exempt the Program and any such Award from the application of Code Section 409A and/or preserve the intended tax treatment of the benefits provided with respect to the Award, or (b) comply with the requirements of Code Section 409A; *provided, however*, that this paragraph shall not create an obligation on the part of the Board to adopt any such amendment, policy or procedure or take any such other action.

Form of Award Notice

[The information set forth in this Award Notice will be contained on the related pages on Merrill Lynch Benefits Website (or the website of any successor company to Merrill Lynch Bank & Trust Co., FSB). This Award Notice shall be replaced by the equivalent pages on such website. References to Award Notice in this Agreement shall then refer to the equivalent pages on such website.]

This notice of Award (the "Award Notice") sets forth certain details relating to the grant by the Company to you of the Award identified below, pursuant to the Plan. The terms of this Award Notice are incorporated into the Agreement that accompanies this Award Notice and made part of the Agreement. Capitalized terms used in this Award Notice that are not otherwise defined in this Award Notice have the meanings given to such terms in the Agreement.

Employee:
 Employee ID:
 Address:
 Award Type:
 Grant ID:
 Plan: Amgen Inc. Amended and Restated 2009 Equity Incentive Plan, as amended and/or restated from time to time
 Grant Date:
 Grant Price: \$ _____
 Number of Shares:
 Number of Units:
 Vesting Date: Means the vesting date indicated in the Vesting Schedule
 Vesting Schedule: Means the schedule of vesting set forth under Vesting Details
 Vesting Details: Means the presentation (tabular or otherwise) of the Vesting Date and the quantity of Shares vesting

IMPORTANT NOTICE REGARDING ACCEPTANCE OF THE AWARD AND THE REQUIREMENT TO OPEN A BROKERAGE ACCOUNT¹

RESIDENTS OF THE U.S. AND PUERTO RICO: Please read this Award Notice, the Plan and the Agreement (collectively, the "Grant Documents") carefully. If you, as a resident of the U.S. or Puerto Rico, do **not** wish to receive this Award and/or you do **not** consent and agree to the terms and conditions on which this Award is offered, as set forth in the Grant Documents, then you must reject the Award by contacting the Merrill Lynch call center (800) 97AMGEN (800-972-6436) within the U.S., Puerto Rico and Canada or +1 (609) 818-8910 from all other countries (Merrill Lynch will accept the charges for your call) no later than the forty-fifth calendar day following the day on which this Award Notice is made available to you, in which case the Award will be cancelled. For the purpose of determining the forty-five calendar days, Day 1 will be the day **immediately** following the day on which this Award Notice is made available to you. Your failure to notify the Company of your rejection of the Award within this specified period will constitute your acceptance of the Award and your agreement with all terms and conditions of the Award, as set forth in the Grant Documents. If you agree to the terms and conditions of your grant and you desire to accept it, then no further action is needed on your part to accept the grant. However, you must still open a brokerage account as directed by the Company, by 1:00 pm Pacific Time on or before the date that is 11 months after the date of grant. This step is necessary to process transactions related to your equity grant. If you do not open a brokerage account by this deadline, **your grant will be cancelled.**

¹ This provision is only for use on the form of grant used for the U.S. and Puerto Rico.

RESTRICTED STOCK UNIT AGREEMENT

THE SPECIFIC TERMS OF YOUR GRANT OF RESTRICTED STOCK UNITS ARE FOUND IN THE PAGES RELATING TO THE GRANT OF RESTRICTED STOCK UNITS FOUND ON MERRILL LYNCH BENEFITS WEBSITE (OR THE WEBSITE OF ANY SUCCESSOR COMPANY TO MERRILL LYNCH BANK & TRUST CO., FSB) (THE “AWARD NOTICE”) WHICH ACCOMPANIES THIS DOCUMENT. THE TERMS OF THE AWARD NOTICE ARE INCORPORATED INTO THIS RESTRICTED STOCK UNIT AGREEMENT.

On the Grant Date specified in the Award Notice, Amgen Inc., a Delaware corporation (the “Company”), has granted to you, the grantee named in the Award Notice, under the Amgen Inc. Amended and Restated 2009 Equity Incentive Plan, as amended and/or restated from time to time (the “Plan”), the Number of Units with respect to the number of shares of the \$0.0001 par value common stock of the Company (the “Shares”) specified in the Award Notice, on the terms and conditions set forth in this Restricted Stock Unit Agreement, any special terms and conditions for your country set forth in the attached Appendix A and the Award Notice (together, the “Agreement”). The Units shall constitute Restricted Stock Units under Section 9.5 of the Plan, which is incorporated herein by reference. Capitalized terms not defined herein shall have the meanings assigned to such terms in the Plan.

I. Vesting Schedule and Termination of Units.

- a. *General.* Subject to the terms and conditions of this Agreement, on each Vesting Date, the Number of Units indicated on the Vesting Schedule shall vest, provided that you have remained continuously and actively employed with the Company or an Affiliate (as defined in the Plan) through each applicable Vesting Date, unless (i) [your employment has terminated due to your Voluntary Termination (as defined in paragraph (d) of this Section I below)]*², [(ii)] you experience a Qualified Termination (as defined below), or (iii)[(ii)] as otherwise determined by the Company in the exercise of its discretion as provided in paragraph (f) of this Section I. The Units represent an unfunded, unsecured promise by the Company to deliver Shares. Only whole Shares shall be issued upon vesting of the Units, and the Company shall be under no obligation to issue any fractional Shares to you. If your employment with the Company or an Affiliate is terminated for any reason or for no reason, including if your active employment is terminated by the Company or an Affiliate without Cause (as defined below), or in the event of any other termination of your active employment caused directly or indirectly by the Company or an Affiliate, except as otherwise provided in paragraphs (b), (c), [(d),]*⁽¹⁾ (e) or (f) of this Section I below, your unvested Units shall automatically expire and terminate on the date of termination of your active employment. Notwithstanding anything herein to the contrary, the Vesting Schedule may be accelerated (by notice in writing) by the Company in its sole discretion at any time that the Units remain outstanding and unvested (in whole or in part). In addition, if not prohibited by local law, vesting may be suspended by the Company in its sole discretion during a leave of absence as provided from time to time according to Company policies and practices.

² Paragraph (d) of Section I of this Agreement is not applicable to awards identified by the Administrator as new hire, retention, special or promotion grants and the provisions of such paragraph shall be reserved and references thereto identified by an asterisk (*) shall be omitted from the agreements evidencing such grants.

- b. *Permanent and Total Disability.* Notwithstanding the provisions in paragraph (a) above, if your employment with the Company or an Affiliate terminates due to your Permanent and Total Disability (as defined below), then the vesting of Units granted under this Agreement shall be accelerated, subject to your execution of a general release and waiver in a form provided by the Company, to vest as of the day immediately preceding such termination of your employment with respect to all Units granted hereunder, except that if the Units were granted in the calendar year in which such termination occurs, the Units shall be accelerated to vest with respect to a number of Units equal to the number of Units subject to this Agreement multiplied by a fraction, the numerator of which is the number of complete months you remained continuously and actively employed during such calendar year, and the denominator of which is twelve (12), and any Units that remain unvested shall automatically expire and terminate on the date of the termination of your active employment due to your Permanent and Total Disability without consideration therefor.
- c. *Death.* Notwithstanding the provisions in paragraph (a) above, if your employment with the Company or an Affiliate terminates due to your death, then the vesting of Units granted under this Agreement shall be accelerated to vest as of the day immediately preceding your death with respect to all Units granted hereunder, except that if the Units were granted in the calendar year in which your death occurs the Units shall be accelerated to vest with respect to a number of Units equal to the number of Units subject to this Agreement multiplied by a fraction, the numerator of which is the number of complete months you remained continuously and actively employed during such calendar year, and the denominator of which is twelve (12), and any Units that remain unvested shall automatically expire and terminate on the date of the termination of your active employment due to your death without consideration therefor.
- d. *[Retirement.* Notwithstanding the provisions in paragraph (a) above, if you terminate your employment with the Company or an Affiliate due to your voluntary termination (and such voluntary termination is not the result of Permanent and Total Disability (as defined below)) after you are at least sixty-five (65) years of age, or after you are at least fifty-five (55) years of age and have been an employee of the Company and/or an Affiliate for at least ten (10) years in the aggregate as determined by the Company in its sole discretion according to Company policies and practices as in effect from time to time ("Voluntary Termination"), then the Units will vest pursuant to the Vesting Schedule without regard to the termination of employment prior to the Vesting Date, subject to your execution of a general release and waiver in a form provided by the Company, with respect to all Units granted hereunder; provided, however, that if the Units were granted in the calendar year in which the Voluntary Termination occurs, the Units will vest pursuant to the Vesting Schedule provided in the Award Notice, provided, that each tranche of Units scheduled to vest upon each remaining Vesting Date in the Vesting Schedule will vest only with respect to the number of Units in such tranche multiplied by a fraction, the numerator of which is the number of complete months you remained continuously and actively employed during such calendar year, and the denominator of which is twelve (12), and any Units that remain unvested in excess of such number of Units shall automatically expire and terminate on the date of termination of your active employment due to your Voluntary Termination without consideration therefor; provided, further, however, that in the event of your death following your Voluntary Termination, any Units that remain outstanding as of the date of your death will become vested as of the day immediately preceding your death. Notwithstanding the definition of Voluntary Termination set forth above, if the Company receives an opinion of counsel that there has been a legal judgment and/or legal development in your jurisdiction that would likely result in the favorable treatment upon Voluntary Termination described above being deemed unlawful and/or discriminatory, then the Committee will not apply the favorable treatment described above.][Reserved]*⁽³⁾

³ Paragraph (d) of Section I of this Agreement is not applicable to awards identified by the Administrator as new hire, retention, special or promotion grants and the provisions of such paragraph shall be reserved and references thereto identified by an asterisk (*) shall be omitted from the agreements evidencing such grants.

- e. *Qualified Termination after a Change of Control.* Notwithstanding the provisions in paragraph (a) above, in the event of a Qualified Termination (as defined below), then, to the extent permitted by applicable law, the vesting of Units granted under this Agreement shall be accelerated to vest as of the day immediately prior to the Qualified Termination.
- f. *Continued Vesting.* Notwithstanding the provisions in paragraph (a) above, the Company may in its sole discretion at any time during the term of this Agreement, in writing, otherwise provide that the Units will vest pursuant to the Vesting Schedule without regard to the termination of employment prior to the Vesting Date, subject to any terms and conditions that the Company may determine.

For purposes of this Agreement:

(i) “termination of your active employment” shall mean the last date that you are either an active employee of the Company or an Affiliate or actively engaged as a Director of the Company or an Affiliate; in the event of termination of your employment (whether or not later found to be invalid or in breach of employment laws in the jurisdiction where you are working or the terms of your employment agreement, if any), your right to receive Units and vest under the Plan, if any, will terminate effective as of the date that you are no longer actively providing services and will not be extended by any notice period (e.g., active employment would not include any period of “garden leave” or similar period mandated under employment laws in the jurisdiction where you are employed or the terms of your employment agreement, if any). The Company shall have exclusive discretion to determine when you are no longer actively providing services for purposes of this Agreement (including whether you may still be considered to be providing services while on a leave of absence);

(ii) “Cause” shall mean (i) your conviction of a felony (or similar crime under applicable law, as determined by the Company), or (ii) your engaging in conduct that constitutes willful gross neglect or willful gross misconduct in carrying out your duties, resulting, in either case, in material economic harm to the Company or any Affiliate, unless you believed in good faith that such conduct was in, or not contrary to, the best interests of the Company or any Affiliate. For purposes of clause (ii) above, no act, or failure to act, on your part shall be deemed “willful” unless done, or omitted to be done, by you not in good faith;

(iii) “Permanent and Total Disability” shall have the meaning ascribed to such term under Section 22(e)(3) of the Code and with such permanent and total disability being certified prior to termination of your employment by (i) the U.S. Social Security Administration, (ii) the comparable governmental authority applicable to an Affiliate, (iii) such other body having the relevant decision-making power applicable to an Affiliate, or (iv) an independent medical advisor appointed by the Company in its sole discretion, as applicable, in any such case;

(iv) “Qualified Termination” shall mean

- (a) if you are an employee who participates in the Change of Control Plan (as defined below), your termination of employment within two (2) years following a Change of Control (i) by the Company other than for Cause, Disability (as defined below), or as a result of your death or (ii) by you for Good Reason (as defined in the Change of Control Plan); or
- (b) if you are an employee who does not participate in the Change of Control Plan or the Change of Control Plan is no longer in effect, your termination of employment within two (2) years following a Change of Control by the Company other than for Cause, Disability (as defined below), or as a result of your death;

(v) “Change of Control” shall mean the occurrence of any of the following:

(A) the acquisition (other than from the Company) by any person, entity or “group,” within the meaning of Section 13(d)(3) or 14(d)(2) of the Exchange Act (excluding, for this purpose, the Company or any of its Affiliates, or any employee benefit plan of the Company or any of its Affiliates which acquires beneficial ownership of voting securities of the Company), of beneficial ownership (within the meaning of Rule 13d-3 promulgated under the Exchange

Act) of fifty percent (50%) or more of either the then-outstanding Shares or the combined voting power of the Company's then-outstanding voting securities entitled to vote generally in the election of directors; or

(B) the consummation by the Company of a reorganization, merger, consolidation, (in each case, with respect to which persons who were the stockholders of the Company immediately prior to such reorganization, merger or consolidation do not, immediately thereafter, own more than fifty percent (50%) of the combined voting power entitled to vote generally in the election of directors of the reorganized, merged or consolidated company's then-outstanding voting securities) or a liquidation or dissolution of the Company or of the sale of all or substantially all of the assets of the Company.

Notwithstanding anything herein or in the Agreement to the contrary, if a Change of Control constitutes a payment event with respect to any Unit that is subject to United States income tax and which provides for a deferral of compensation that is subject to Section 409A of the Code, the transaction or event described in subsection (A) or (B) above must also constitute a "change in control event," as defined in U.S. Treasury Regulation § 1.409A-3(i)(5), in order to constitute a Change of Control for purposes of payment of such Unit.

(vi) "Change of Control Plan" shall mean the Company's change of control and severance plan, including the Amgen Inc. Change of Control Severance Plan, as amended and restated, effective as of December 9, 2010 (and any subsequent amendments thereto), or equivalent plan governing the provision of benefits to eligible employees upon the occurrence of a Change of Control (including resulting from a termination of employment that occurs within a specified time period following a Change of Control), as in effect immediately prior to a Change of Control; and

(vii) "Disability," shall be determined in accordance with the Company's long-term disability plan as in effect immediately prior to a Change of Control.

II. Form and Timing of Settlement. Subject to satisfaction of tax or similar obligations as provided for in Section III, any vested Units shall be settled by the Company delivering to you a number of Shares equal to the number of Shares covered by this Award or in a lump sum in cash with a value equal to the Fair Market Value of the number of Shares subject to the vested Units as of the applicable Vesting Date (without interest thereon), or in a combination of Shares and cash, as determined by the Administrator at any time prior to settlement and in its discretion, as soon as practicable, and in any event within 90 days, after the applicable Vesting Date, which for purposes of this Section II, includes the date of any accelerated vesting, if any (the "Settlement Period"). [(For the avoidance of doubt, in the event that any Units continue to vest following a Voluntary Termination in accordance with Section 1(d) above, the Vesting Date(s) for purposes of settlement pursuant to this Section II shall be the regularly scheduled Vesting Dates following such termination.)]*⁴ Notwithstanding anything to the contrary in the foregoing, in the event that (i) the vesting and settlement of Units is conditioned on your execution and delivery of a release and (ii) the Settlement Period commences in one calendar year and ends in the next calendar year, the Units will be settled in the second calendar year. Shares issued in respect of a Unit shall be deemed to be issued in consideration of past services actually rendered by you to the Company or an Affiliate or for its benefit for which you have not previously been compensated or for future services to be rendered, as the case may be, which the Company deems to have a value at least equal to the aggregate par value thereof.

III. Tax Withholding; Issuance of Certificates. Regardless of any action the Company or your actual employer (the "Employer") takes with respect to any or all income tax (including federal, state and local taxes), social insurance, payroll tax, fringe benefit tax, payment on account or other tax-related items related to your participation in the Plan and legally applicable to you ("Tax Obligations"), you acknowledge that the ultimate liability for all Tax Obligations is and remains your responsibility and may exceed the amount, if any, actually withheld by the Company

⁴ Paragraph (d) of Section I of this Agreement is not applicable to awards identified by the Administrator as new hire, retention, special or promotion grants and the provisions of such paragraph shall be reserved and references thereto identified by an asterisk (*) shall be omitted from the agreements evidencing such grants.

and/or your Employer. You further acknowledge that the Company and/or your Employer (i) make no representations or undertakings regarding the treatment of any Tax Obligations in connection with any aspect of the Units, including the grant of the Units, the vesting of Units, the conversion of the Units into Shares or the receipt of an equivalent cash payment, the subsequent sale of any Shares acquired at vesting and the receipt of any Dividends (as defined in Section IV, below), and (ii) do not commit to and are under no obligation to structure the terms of the grant or any aspect of the Units to reduce or eliminate your liability for Tax Obligations or achieve any particular tax result. Furthermore, if you become subject to tax in more than one jurisdiction, you acknowledge that the Company and/or your Employer (or former employer, as applicable) may be required to withhold or account for Tax Obligations in more than one jurisdiction.

Prior to any relevant taxable or tax withholding event, as applicable, you shall pay, or make adequate arrangements satisfactory to the Company or to your Employer (in their sole discretion) to satisfy all Tax Obligations. In this regard, you authorize the Company and/or your Employer or their respective agents, at their discretion, to satisfy all applicable Tax Obligations by one or a combination of the following:

- (a) withholding from your wages or other cash compensation paid to you by the Company and/or your Employer; or
- (b) withholding from proceeds of the sale of Shares acquired upon vesting or payment of the Units either through a voluntary sale or through a mandatory sale arranged by the Company (on your behalf pursuant to this authorization); or
- (c) withholding in Shares to be issued or cash to be paid upon vesting or payment of the Units, provided that, if Shares are withheld, the Company and your Employer shall only withhold an amount of Shares with a fair market value equal to the Tax Obligations.

Depending on the withholding method, the Company may withhold or account for Tax Obligations by considering applicable minimum statutory withholding rates or other applicable withholding rates, including maximum applicable rates. If the Tax Obligations are satisfied by withholding in Shares, for tax purposes, you are deemed to have been issued the full number of Shares subject to the vested Units, notwithstanding that a number of the Shares is held back solely for the purpose of paying the Tax Obligations due as a result of any aspect of your participation in the Plan (any Shares withheld by the Company hereunder shall not be deemed to have been issued by the Company for any purpose under the Plan and shall remain available for issuance thereunder).

Finally, you shall pay to the Company or your Employer any amount of Tax Obligations that the Company or your Employer may be required to withhold or account for as a result of your participation in the Plan that cannot be satisfied by the means previously described. You agree to take any further actions and execute any additional documents as may be necessary to effectuate the provisions of this Section III. Notwithstanding Section II above, the Company may refuse to issue or deliver the Shares or the proceeds of the sale of Shares if you fail to comply with your obligations in connection with the Tax Obligations.

IV. Dividend Equivalents

(a) Crediting and Payment of Dividend Equivalents. Subject to this Section IV, Dividend Equivalents shall be credited on each Unit granted to you under this Agreement in the manner set forth in the remainder of this Section IV. If the Company declares one or more dividends or distributions (each, a "Dividend") on its Common Stock with a record date which occurs during the period commencing on the Grant Date through and including the day immediately preceding the day the shares of Common Stock subject to the Units are issued to you, whether in the form of cash, Common Stock or other property, then on the date such Dividend is paid to the Company's stockholders you shall be credited with an amount equal to the amount or fair market value of such Dividend which would have been payable to you if you held a number of shares of Common Stock equal to the number of your Units as of the record date for such Dividend, unless the Units have been forfeited between the record date and payment date for such Dividend. Any such Dividend Equivalents shall be credited and deemed reinvested in the Common Stock as of the Dividend payment date. Dividend Equivalents shall be payable in full shares of Common Stock, unless the

Administrator determines, at any time prior to payment and in its discretion, that they shall be payable in cash. Dividend Equivalents payable with respect to fractional shares of Common Stock shall be paid in cash.

(b) Treatment of Dividend Equivalents. Except as otherwise expressly provided in this Section IV, any Dividend Equivalents credited to you shall be subject to all of the provisions of this Agreement which apply to the Units with respect to which they have been credited and shall be payable, if at all, at the time and to the extent that the underlying Unit becomes payable. Dividend Equivalents shall not be payable on any Units that do not vest, or are forfeited, pursuant to the terms of this Agreement. Dividend Equivalent rights and any amounts that may become distributable in respect thereof shall be treated separately from the Units and the rights arising in connection therewith for purposes of the designation of time and form of payments required by Section 409A of the Code (together with any Department of Treasury regulations and other interpretive guidance issued thereunder, including without limitation any such regulations or other guidance that may be issued after the Grant Date, "Section 409A").

V. Transferability. No benefit payable under, or interest in, this Agreement or in the Shares that are scheduled to be issued to you hereunder shall be subject in any manner to anticipation, alienation, sale, transfer, assignment, pledge, encumbrance or charge and any such attempted action shall be void and no such benefit or interest shall be, in any manner, liable for, or subject to, your or your beneficiary's debts, contracts, liabilities or torts; provided, however, nothing in this Section V shall prevent transfer (i) by will or (ii) by applicable laws of descent and distribution.

VI. Notices. Any notices provided for in this Agreement or the Plan shall be given in writing or electronically and shall be deemed effectively given upon receipt or, in the case of notices delivered by the Company to you, five (5) days after deposit in the United States mail or equivalent foreign postal service, postage prepaid, addressed to you at such address as is currently maintained in the Company's records or at such other address as you hereafter designate by written notice to the Company Stock Administrator. Such notices may be given using any automated system for the documentation, granting or exercise of Awards, such as a system using an internet website or interactive voice response, as approved by the Company.

VII. Plan. This Agreement is subject to all the provisions of the Plan, which provisions are hereby made a part of this Agreement, including without limitation the provisions of Section 9.5 of the Plan relating to Restricted Stock Units, and is further subject to all interpretations, amendments, rules and regulations which may from time to time be promulgated and adopted pursuant to the Plan. In the event of any conflict between the provisions of this Agreement and those of the Plan, the provisions of the Plan shall control.

VIII. Governing Law and Venue. The terms of this Agreement shall be governed by the laws of the State of Delaware without giving effect to principles of conflicts of laws. For purposes of litigating any dispute that arises hereunder, the parties hereby submit to and consent to the jurisdiction of the State of Delaware, and agree that such litigation shall be conducted in the courts of the State of Delaware, or the federal courts for the United States for the federal district located in the State of Delaware, and no other courts, where this Agreement is made and/or to be performed.

IX. Code Section 409A. The time and form of payment of the Units is intended to comply with the requirements of Section 409A and this Agreement shall be interpreted in accordance with Section 409A. Accordingly, no acceleration or deferral of any payment shall be permitted if it would cause the payment of the Units to violate Section 409A. In addition, notwithstanding any provision herein to the contrary, in the event that following the Grant Date, the Committee (as defined in the Plan) determines that it may be necessary or appropriate to do so, the Committee may adopt such amendments to the Plan and/or this Agreement or adopt other policies and procedures (including amendments, policies and procedures with retroactive effect), or take any other actions, that the Committee determines are necessary or appropriate to (a) exempt the Plan and/or the Units from the application of Section 409A and/or preserve the intended tax treatment of the benefits provided with respect to this Award, or (b) comply with the requirements of Section 409A; provided, however, that this paragraph shall not create an obligation on the part of the Committee to adopt any such amendment, policy or procedure or take any such other action. For purposes of Section 409A, the right to receive payment of Units at each Vesting Date shall be treated as a right to receive separate and distinct payments. No payment hereunder shall be made to you during the six (6)-month period following your "separation from service" (within the meaning of Section 409A) to the extent that the Company determines that paying such amount at

the time set forth herein would be a prohibited distribution under Section 409A(a)(2)(B)(i). If the payment of any such amounts is delayed as a result of the previous sentence, then within thirty (30) days following the end of such six (6)-month period (or, if earlier, your death), the Company shall pay to you (or to your estate) the cumulative amounts that would have otherwise been payable to you during such period, without interest.

X. Acknowledgement. By electing to accept this Agreement, you acknowledge receipt of this Agreement and hereby confirm your understanding that the terms set forth in this Agreement constitute, subject to the terms of the Plan, which terms shall control in the event of any conflict between the Plan and this Agreement, the entire agreement and understanding of the parties with respect to the matters contained herein and supersede any and all prior agreements, arrangements and understandings, both oral and written, between the parties concerning the subject matter of this Agreement. The Company may, in its sole discretion, decide to deliver any documents related to current or future participation in the Plan (including this Agreement) by electronic means. You hereby consent to receive such documents by electronic delivery and agree to participate in the Plan through an on-line or electronic system established and maintained by the Company or a third party designated by the Company.

XI. Acknowledgment of Nature of Plan and Units. In accepting this Agreement, you acknowledge, understand and agree that:

(a) the Plan is established voluntarily by the Company, is discretionary in nature and may be modified, amended, suspended or terminated by the Company at any time, as provided in the Plan;

(b) the grant of the Units is exceptional, voluntary and occasional and does not create any contractual or other right to receive future awards of Units, or benefits in lieu of Units even if Units have been awarded in the past;

(c) all decisions with respect to future awards, if any, will be at the sole discretion of the Company;

(d) your participation in the Plan is voluntary;

(e) the grant of Units, the Shares subject to the Units, and the income from and value of same, are not intended to replace any pension rights or compensation;

(f) neither the grant of Units nor any provision of this Agreement, the Plan or the policies adopted pursuant to the Plan confer upon you any right with respect to employment or continuation of current employment and shall not interfere with the ability of the Employer to terminate your employment or service relationship (if any) at any time;

(g) in the event that you are not an employee of the Company or any Affiliate, the Units shall not be interpreted to form an employment contract or relationship with the Company or any Affiliate;

(h) the future value of the underlying Shares is unknown, indeterminable and cannot be predicted with certainty;

(i) in consideration of the grant of Units hereunder, no claim or entitlement to compensation or damages arises from termination of Units, and no claim or entitlement to compensation or damages shall arise from forfeiture of the Units resulting from termination of your employment by the Company or an Affiliate (regardless of the reason for such termination and whether or not later found to be invalid or in breach of employment laws in the jurisdiction where you are employed or the terms of your employment agreement, if any), and you irrevocably release the Company and your Employer from any such claim that may arise; if, notwithstanding the foregoing, any such claim is found by a court of competent jurisdiction to have arisen, you shall be deemed irrevocably to have waived your entitlement to pursue such claim;

(j) unless otherwise agreed with the Company, the Units, the Shares subject to the Units, and the income from and value of same, are not granted as consideration for, or in connection with, the service you may provide as a director of an Affiliate of the Company;

(k) except as otherwise provided in this Agreement or the Plan, the Units and the benefits evidenced by this Agreement do not create any entitlement to have the Units or any such benefits transferred to, or assumed by, another company nor to be exchanged, cashed out or substituted for, in connection with any corporate transaction affecting the shares of the Company;

(l) the following provisions apply only if you are providing services outside the United States:

(i) for employment law purposes outside the United States, the Units, Shares subject to the Units, and the income from and value of same, are not part of normal or expected compensation or salary for any purpose, including but not limited to for purposes of calculating any severance, resignation, termination, redundancy, dismissal, end of service payments, bonuses, holiday pay, long-service awards, pension or retirement benefits or similar mandatory payments; and

(ii) neither the Company, the Employer nor any Affiliate of the Company shall be liable for any foreign exchange rate fluctuation between your local currency and the United States Dollar that may affect the value of the Units or of any amounts due to you pursuant to the settlement of the Units or the subsequent sale of any Shares acquired upon settlement.

XII. No Advice Regarding Award. The Company is not providing any tax, legal or financial advice, nor is the Company making any recommendations regarding your participation in the Plan, or your acquisition or sale of the underlying Shares. You should consult with your own personal tax, legal and financial advisors regarding your participation in the Plan before taking any action related to the Plan.

XIII. Compliance with Laws. Notwithstanding any provision of this Agreement to the contrary, if you are employed by the Company or an Affiliate in any of the countries identified in the attached Appendix A (which constitutes a part of this Agreement), are subject to the laws of any foreign jurisdiction, or relocate to one of the countries included in the attached Appendix A, the Units granted hereunder shall be subject to any special terms and conditions for your country set forth in Appendix A and to the following additional terms and conditions:

- a. the terms and conditions of this Agreement, including Appendix A, are deemed modified to the extent necessary or advisable to comply with applicable foreign laws or facilitate the administration of the Plan;
- b. if applicable, the effectiveness of your award of Units is conditioned upon its compliance with any applicable foreign laws, regulations, rules or local governmental regulatory exemption and subject to receipt of any required foreign regulatory approvals;
- c. to the extent necessary to comply with applicable foreign laws, the payment of any earned Units shall be made in cash or Common Stock, at the Company's election; and
- d. the Company may take any other action, before or after an award of Units is made, that it deems advisable to obtain approval or comply with any necessary local governmental regulatory exemptions or approvals.

Notwithstanding anything to the contrary contained herein, the Company shall not take any actions hereunder that would violate the Securities Act, the Exchange Act, the Code, or any other securities or tax or other applicable law or regulation, or the rules of any Securities Exchange. Notwithstanding anything to the contrary contained herein, the Shares issuable upon vesting of the Unit shall not be issued unless such Shares are then registered under the Securities Act, or, if such Shares are not then so registered, the Company has determined that such vesting and issuance would

be exempt from the registration requirements of the Securities Act, and that the issuance satisfied all other applicable legal requirements.

XIV. **Data Privacy.** *You hereby expressly consent to the collection, use and transfer, in electronic or other form, of your personal data as described in this Agreement for the purpose of implementing, administering and managing your participation in the Plan. In order for the Company and your Employer to facilitate your participation in the Plan, the Company and your Employer must collect and use personal data about you. In accordance with applicable laws, reasonable security measures will be implemented and maintained to protect the security of your personal data; however, you understand that absolute security cannot be guaranteed.*

You understand that the Company and your Employer may hold certain personal information about you, including your name, home address and telephone number, email address, date of birth, social insurance number (to the extent permitted under applicable local law), passport or other identification number, salary, nationality, job title/work history/service periods, residency status, citizenship, tax withholding and payroll data, any shares of stock or directorships held in the Company, details of all equity compensation or any other entitlement to Shares awarded, cancelled, vested, unvested or outstanding in your favor, for the purposes of implementing, administering and managing the Plan (“personal data”).

You authorize the transfer of your personal data to Merrill Lynch Bank & Trust Co., FSB, or any successor thereto, and any other third parties which may assist the Company (presently or in the future) with implementing, administering and managing your participation in the Plan to receive, possess, use, retain and transfer your personal data, in electronic or other form, for the purpose of implementing, administering and managing your participation in the Plan, including any requisite transfer of such personal data as may be required to any other broker, escrow agent or other third party with whom the Shares received in settlement of the Units may be deposited. You understand that such authorized recipients of your personal data may be located in countries that do not provide the same level of data privacy laws and protections as the country in which your personal data originated. Where permitted by applicable law, you may, at any time, request access or correction to, or destruction or data portability of your personal data by contacting in writing your local human resources representative. You understand that the only consequence of refusing or withdrawing your consent is the Company would not be able to grant you Units or other equity awards or administer or maintain such awards. Your participation in the Plan is entirely voluntary. Your employment status or service with the Employer will not be affected if you do not consent. For more information on the consequences of your refusal to consent or withdrawal of consent, you understand that you may contact your local human resources representative.

XV. **Severability.** If one or more of the provisions of this Agreement shall be held invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby and the invalid, illegal or unenforceable provisions shall be deemed null and void; however, to the extent permissible by law, any provisions which could be deemed null and void shall first be construed, interpreted or revised retroactively to permit this Agreement to be construed so as to foster the intent of this Agreement and the Plan.

XVI. **Language.** By electing to accept this Agreement, you acknowledge that you are sufficiently proficient in English to understand the terms and conditions of this Agreement. Further, if you have received this Agreement or any other document related to the Plan translated into a language other than English and if the meaning of the translated version is different than the English version, the English version will control.

XVII. **Imposition of Other Requirements.** The Company reserves the right to impose other requirements on your participation in the Plan, on the Units and on any Shares acquired under the Plan, to the extent the Company determines it is necessary or advisable for legal or administrative reasons, and to require you to sign any additional agreements or undertakings that may be necessary to accomplish the foregoing.

XVIII. **Compensation Subject to Recovery.** The Units subject to this Award and all compensation payable with respect to them shall be subject to recovery by the Company pursuant to any and all of the Company’s policies

with respect to the recovery of compensation, as they shall be in effect and may be amended from time to time, to the maximum extent permitted by applicable law.

XIX. **Waiver.** You acknowledge that a waiver by the Company of breach of any provision of this Agreement shall not operate or be construed as a waiver of any other provision of this Agreement, or of any subsequent breach by you or any other grantee.

XX. **Headings.** This Agreement’s section headings are for convenience only and shall not constitute a part of this Agreement or affect this Agreement’s meaning.

Very truly yours,
AMGEN INC.

By: _____

Name:
Title:

APPENDIX A

**ADDITIONAL TERMS AND CONDITIONS OF THE
AMENDED AND RESTATED
AMGEN INC. 2009 EQUITY INCENTIVE PLAN,
AS AMENDED AND/OR RESTATED FROM TIME TO TIME**

**GRANT OF RESTRICTED STOCK UNITS
(BY COUNTRY)**

Certain capitalized terms used but not defined in this Appendix A shall have the meanings set forth in the Plan and/or the Agreement to which this Appendix is attached.

TERMS AND CONDITIONS

This Appendix includes additional terms and conditions that govern any Units granted under the Plan if, under applicable law, you are a resident of, are deemed to be a resident of or are working in one of the countries listed below. Furthermore, the additional terms and conditions that govern any Units granted hereunder may apply to you if you transfer employment and/or residency to one of the countries listed below and the Company shall, in its discretion, determine to what extent the terms and conditions contained herein shall apply to you.

NOTIFICATIONS

This Appendix also includes notifications relating to exchange control and other issues of which you should be aware with respect to your participation in the Plan. The information is based on the exchange control, securities and other laws in effect in the countries to which this Appendix refers as of October 2017. Such laws are often complex and change frequently. As a result, the Company strongly recommends that you not rely on the notifications herein as the only source of information relating to the consequences of your participation in the Plan because the information may be outdated when you vest in the Units and acquire Shares under the Plan, or when you subsequently sell Shares acquired under the Plan.

In addition, the notifications are general in nature and may not apply to your particular situation, and the Company is not in a position to assure you of any particular result. Accordingly, you should seek appropriate professional advice as to how the relevant laws in your country may apply to your situation. Finally, if you are a citizen or resident of a country other than the one in which you are currently residing and/or working or are considered a resident of another country for local law purposes, the information contained herein may not be applicable to you or you may be subject to the provisions of one or more jurisdictions.

ALL NON-U.S. JURISDICTIONS**NOTIFICATIONS**

Insider Trading Restrictions/Market Abuse Laws. You may be subject to insider trading restrictions and/or market abuse laws based on the exchange on which the Shares are listed and in applicable jurisdictions including the United States and your country or your broker's country, if different, which may affect your ability to accept, acquire, sell or otherwise dispose of Shares, rights to Shares (*e.g.*, Units) or rights linked to the value of Shares (*e.g.*, Dividend Equivalents) during such times as you are considered to have "inside information" regarding the Company (as defined by the laws in applicable jurisdictions). Local insider trading laws and regulations may prohibit the cancellation or amendment of orders you place before you possessed inside information. Furthermore you could be prohibited from (i) disclosing the inside information to any third party, which may include fellow employees (other than on a "need to know" basis) and (ii) "tipping" third parties or causing them otherwise to buy or sell securities. Any restrictions under these laws or regulations are separate from and in addition to any restrictions that may be imposed under any applicable Company insider trading policy. You are responsible for ensuring your compliance with any applicable restrictions and you should speak with your personal legal advisor on this matter.

APPENDIX A-1

Foreign Asset/Account, Tax Reporting Information. Your country of residence may have certain foreign asset and/or account reporting requirements which may affect your ability to acquire or hold Shares under the Plan or cash received from participating in the Plan (including from any Dividends or Dividend Equivalents received, or sale proceeds arising from the sale of Shares) in a brokerage or bank account outside of your country. You may be required to report such accounts, assets or transactions to the tax or other authorities in your country. You are responsible for ensuring your compliance with such regulations, and you should speak with your personal legal advisor on this matter.

AUSTRALIA

NOTIFICATIONS

Australia Offer Document. The offer of the Award is intended to comply with the provisions of the Corporations Act 2001, ASIC Regulatory Guide 49 and ASIC Class Order CO 14/1000. Additional details are set forth in the Offer Document for the Offer of Restricted Stock Units to Australian Resident Employees.

Tax Information. Subdivision 83A-C of the Income Tax Assessment Act 1997 (Cth) applies to the Units granted under the Plan, such that the Units are intended to be subject to deferred taxation.

Exchange Control Information. If you are an Australian resident, exchange control reporting is required for cash transactions exceeding AUD10,000 and for international fund transfers. If an Australian bank is assisting with the transaction, the bank will file the report on your behalf. If there is no Australian bank involved in the transfer, you will be required to file the report.

ARGENTINA

TERMS AND CONDITIONS

Labor Law Acknowledgement. The following provision supplements Section XI of the Agreement:

In accepting this Agreement, you acknowledge, understand and agree that the grant of the Units is made by the Company (not the Employer) in its sole discretion and that the value of the Units or any Shares acquired under the Plan shall not constitute salary or wages for any purpose under Argentine labor law including, but not limited to, the calculation of (i) any labor benefits including, without limitation, vacation pay, thirteenth salary, compensation in lieu of notice, annual bonus, disability, and leave of absence payments, etc., or (ii) any termination or severance indemnities or similar payments.

NOTIFICATIONS

Securities Law Information. Neither the Units nor the underlying Shares are publicly offered or listed on any stock exchange in Argentina. The offer is private and not subject to the supervision of any Argentine governmental authority.

Exchange Control Information. Exchange control regulations in Argentina are subject to frequent change. You should consult with your personal legal advisor regarding any exchange control obligations that you may have prior to receiving proceeds from Dividend Equivalents, the sale of Shares or dividends. You must comply with any and all Argentine currency exchange restrictions, approvals and reporting requirements in connection with your participation in the Plan.

AUSTRIA

NOTIFICATIONS

Exchange Control Information. If you are an Austrian resident and you hold Shares acquired under the Plan outside of Austria, you must submit a report to the Austrian National Bank. An exemption applies if the value of the Shares

as of any given quarter does not meet or exceed €30,000,000 or if the value of the Shares in any given year as of December 31 does not meet or exceed €5,000,000. If the former threshold is exceeded, quarterly obligations are imposed, whereas if the latter threshold is exceeded, annual reports must be given. The quarterly reporting date is as of the last day of the respective quarter and the deadline for filing the quarterly report is the 15th day of the month following the end of the respective quarter. The annual reporting date is December 31 and the deadline for filing the annual report is January 31 of the following year.

A separate reporting requirement applies when you sell Shares acquired under the Plan, receive a cash Dividend paid on such Shares or Dividend Equivalents paid in cash. In that case, there may be exchange control obligations if the cash proceeds are held outside of Austria. If the transaction volume of all cash accounts abroad meets or exceeds €10,000,000, the movements and balances of all accounts must be reported monthly, as of the last day of the month, on or before the 15th day of the following month, on the prescribed form (*Meldungen SI-Forderungen und/oder SI-Verpflichtungen*).

BELGIUM

NOTIFICATIONS

Tax Reporting; Foreign Asset/Account Reporting Information. If you are a Belgian resident, you are required to report any taxable income attributable to the Units granted hereunder on your annual tax return. You are also required to report any securities (*e.g.*, Shares acquired under the Plan) held and bank accounts (including brokerage accounts) opened and maintained outside of Belgium on your annual tax return. In a separate report, you are required to provide the National Bank of Belgium with the account details of any such foreign accounts (including the account number, bank name and country in which such account was opened). This report, as well as information on how to complete it, can be found on the website of the National Bank of Belgium, www.nbb.be, under the *Kredietcentrales / Centrales des crédits* caption.

BRAZIL

TERMS AND CONDITIONS

Compliance with Law. By accepting the Units, you acknowledge that you agree to comply with applicable Brazilian laws and pay any and all applicable taxes associated with the vesting of the Units, the sale of Shares acquired under the Plan, the payment of Dividends on such Shares and the receipt of any Dividend Equivalents paid in cash.

Acknowledgement of Nature of Plan and Units. This provision supplements Section XI of the Agreement:

In accepting this Agreement, you acknowledge (i) that you are making an investment decision, (ii) that the Shares will be issued to you only if the vesting conditions are met and any necessary services are rendered by you during the vesting period set forth in the Vesting Schedule, and (iii) that the value of the underlying Shares is not fixed and may increase or decrease in value over the vesting period without compensation to you.

NOTIFICATIONS

Exchange Control Information. If you are resident or domiciled in Brazil, you will be required to submit annually a declaration of assets and rights held outside of Brazil to the Central Bank of Brazil if the aggregate value of such assets and rights equals or exceeds US\$100,000. If such amount exceeds US\$100,000,000, the referenced declaration must be submitted quarterly. Assets and rights that must be reported include the following: (i) bank deposits; (ii) loans; (iii) financing transactions; (iv) leases; (v) direct investments; (vi) portfolio investments, including Shares acquired under the Plan; (vii) financial derivatives investments; and (viii) other investments, such as real estate. Please note that foreign individuals holding Brazilian visas are considered Brazilian residents for purposes of this reporting requirement and must declare at least the assets held abroad that were acquired subsequent to the date of admittance as a resident of Brazil. Individuals holding assets and rights outside of Brazil valued at less than US\$100,000 are not required to submit a declaration.

APPENDIX A-3

BULGARIA

Foreign Asset/Account Reporting Information. You will be required to annually file statistical forms with the Bulgarian National Bank regarding your receivables in bank accounts abroad as well as your securities abroad (*e.g.*, Shares acquired under the Plan) if the total sum of all such receivables and securities equals or exceeds BGN 50,000 as of the previous calendar year-end. The reports are due by March 31. You should contact your bank in Bulgaria for additional information regarding this requirement.

CANADA**TERMS AND CONDITIONS**

Termination of Employment. Section I(i) of the Agreement is amended to read as follows:

(i) “termination of your active employment” shall mean the last date that you are either an active employee of the Company or an Affiliate or actively engaged as a Director of the Company or an Affiliate; in the event of involuntary termination of your employment (regardless of the reason for such termination and whether or not later found to be invalid or in breach of employment laws in the jurisdiction where you are employed or the terms of your employment agreement, if any), your right to receive any Units and vest under the Plan, if any, will terminate effective as of the date that is the earlier of: (1) the date you receive notice of termination of employment from the Company or your Employer, or (2) the date you are no longer actively employed by the Company or your Employer regardless of any notice period or period of pay in lieu of such notice required under local law (including, but not limited to statutory law, regulatory law and/or common law). Your right, if any, to acquire Shares pursuant to the Units after termination of employment will be measured by the date of termination of your active employment and will not be extended by any notice period mandated under local law;

Form of Settlement – Units Payable Only in Shares. Notwithstanding any discretion in Section 9.5 of the Plan or anything to the contrary in the Agreement, the Units do not provide any right for you, as a resident of Canada, to receive a cash payment and shall be paid in Shares only.

The following provisions will apply to you if you are a resident of Quebec:

Language Consent. The parties acknowledge that it is their express wish that the Agreement, as well as all documents, notices, and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English.

Les parties reconnaissent avoir exigé la rédaction en anglais de cette convention (« Agreement »), ainsi que de tous documents, avis et procédures judiciaires, exécutés, donnés ou intentés en vertu de, ou liés directement ou indirectement à, la présente convention.

Data Privacy Notice. This provision supplements Section XIV of the Agreement:

You hereby authorize the Company and the Company’s representative to discuss with and obtain all relevant information from all personnel (professional or not) involved in the administration and operation of the Plan. You further authorize the Company and your Employer to disclose and discuss your participation in the Plan with their advisors. You also authorize the Company and your Employer to record such information and keep it in your employee file.

NOTIFICATIONS

Securities Law Information. You are permitted to sell Shares acquired through the Plan through the designated broker appointed under the Plan, if any, provided that the resale of such Shares takes place outside of Canada through the facilities of a stock exchange on which the Shares are listed (*e.g.*, the NASDAQ Global Select Market).

APPENDIX A-4

Foreign Asset/Account Reporting Information. Specified foreign property, including Shares, stock options and other rights to receive Shares (*e.g.*, Units) of a non-Canadian company held by a Canadian resident employee generally must be reported annually on a Form T1135 (Foreign Income Verification Statement) if the total cost of the employee's specified foreign property exceeds C\$100,000 at any time during the year. Thus, such stock options and Units must be reported – generally at nil cost – if the C\$100,000 cost threshold is exceeded because other specified foreign property is held by the employee. When Shares are acquired, their cost generally is the adjusted cost base (“ACB”) of the Shares. The ACB ordinarily would equal the fair market value of the Shares at the time of acquisition, but if the employee owns other shares of the same company, this ACB may have to be averaged with the ACB of the other shares.

CHINA

TERMS AND CONDITIONS

The following terms apply only to individuals who are subject to exchange control restrictions in the People's Republic of China (the “PRC”), as determined by the Company in its sole discretion:

Vesting of the Units. [Notwithstanding anything to the contrary in Section I(d) of the Agreement, if your employment with the Company or an Affiliate terminates due to your Voluntary Termination, as defined in Section I(d), then the vesting of Units granted under this Agreement shall be accelerated to vest as of the day immediately preceding such Voluntary Termination with respect to all Units granted hereunder.]⁵

Sale Requirement. Notwithstanding anything to the contrary in the Agreement, due to exchange control laws in the PRC, you agree that the Company reserves the right to require the immediate sale of any Shares issued upon settlement of the Units. You understand and agree that any such immediate sale of Shares will occur as soon as is practical following settlement of the Units. Alternatively, if the Shares are not immediately sold upon settlement of the Units, the Company will require the sale of any Shares you may then hold within six (6) months (or such other period as may be required under applicable legal or exchange control requirements) following the termination of your employment with the Company including its Affiliates.

You agree that the Company is authorized to instruct Merrill Lynch Bank & Trust Co., FSB or such other designated broker as may be selected by the Company to assist with the sale of the Shares on your behalf pursuant to this authorization, and you expressly authorize such broker to complete the sale of such Shares. You also agree to sign any agreements, forms and/or consents that may be reasonably requested by the Company (or the Company's designated broker) to effectuate the sale of the Shares (including, without limitation, as to the transfers of the proceeds and other exchange control matters noted below) and to otherwise cooperate with the Company with respect to such matters, provided that you shall not be permitted to exercise any influence over how, when or whether the sales occur. Upon the sale of the Shares, you will receive the cash proceeds from the sale, less any applicable Tax Obligations, brokerage fees or commissions, in accordance with applicable exchange control laws and regulations.

You acknowledge that Merrill Lynch Bank & Trust Co., FSB or such other designated broker as may be selected by the Company is under no obligation to arrange for the sale of the Shares at any particular price. Due to fluctuations in the Share price and/or applicable exchange rates between the settlement date and (if later) the date on which the Shares are sold, the amount of proceeds ultimately distributed to you may be more or less than the market value of the Shares on the settlement date (which is the amount relevant to determining your liability for Tax Obligations). You understand and agree that the Company is not responsible for the amount of any loss that you may incur and that the Company assumes no liability for any fluctuations in the Share price and/or any applicable exchange rate.

⁵ Paragraph (d) of Section I of this Agreement is not applicable to awards identified by the Administrator as new hire, retention, special or promotion grants and the provisions of such paragraph shall be reserved and references thereto identified by an asterisk (*) shall be omitted from the agreements evidencing such grants.

Designated Broker Account. If Shares issued upon the settlement of the Units are not immediately sold, you acknowledge that you are required to maintain the Shares in an account with Merrill Lynch Bank & Trust Co., FSB or such other designated broker as may be selected by the Company until the Shares are sold through such Company-designated broker.

Exchange Control Requirements. You understand and agree that, pursuant to local exchange control requirements, you will be required to repatriate the cash proceeds from the sale of the Shares issued to you upon settlement of the Units and from the receipt of any Dividends or Dividend Equivalents to China. You further understand that, under applicable laws, such repatriation of your cash proceeds will need to be effectuated through a special exchange control account established by the Company or any Affiliate, including the Employer, and you hereby consent and agree that any proceeds may be transferred to such special account prior to being delivered to you. You also understand that the Company will deliver the proceeds to you as soon as possible, but that there may be delays in distributing the funds to you due to exchange control requirements in China. Proceeds may be paid to you in U.S. dollars or local currency at the Company's discretion. If the proceeds are paid to you in U.S. dollars, you will be required to set up a U.S. dollar bank account in China so that the proceeds may be deposited into this account. If the proceeds are paid to you in local currency, the Company is under no obligation to secure any particular currency conversion rate and the Company may face delays in converting the proceeds to local currency due to exchange control restrictions. You further agree to comply with any other requirements that may be imposed by the Company in the future in order to facilitate compliance with exchange control requirements in China.

COLOMBIA

NOTIFICATIONS

Securities Law Information. The Shares are not and will not be registered with the Colombian registry of publicly traded securities (*Registro Nacional de Valores y Emisores*) and therefore the Shares may not be offered to the public in Colombia. Nothing in this document should be construed as the making of a public offer of securities in Colombia.

Exchange Control Information. Investment in assets located abroad (such as Shares acquired under the Plan) does not require prior approval from the Central Bank (*Banco de la República*). Nonetheless, such investments are subject to exchange control regulations. If you are a Colombian resident and the value of your aggregate investments held abroad (including Shares) equals or exceeds US\$500,000 as of December 31 of the applicable calendar year, these investments must be registered with the Central Bank. Upon the sale or other disposition of investments (including Shares, Dividends and Dividend Equivalents) which have been registered with the Central Bank, the registration with the Central Bank must be cancelled no later than March 31 of the year following the year of the sale or disposition (or a fine of up to 200% of the value of the infringing payment will apply). When investments held abroad are sold or otherwise disposed of, regardless of whether they have been registered with the Central Bank, Colombian residents must repatriate the proceeds to Colombia by selling currency to a Colombian bank and filing the appropriate form.

CROATIA

NOTIFICATIONS

Exchange Control Information. Croatian residents may be required to report any foreign investments (including Shares acquired under the Plan) to the Croatian National Bank for statistical purposes. You should be aware that exchange control regulations in Croatia are subject to frequent change and you are solely responsible for ensuring your continued compliance with current Croatian exchange control laws.

CZECH REPUBLIC

NOTIFICATIONS

Foreign Asset/Account Reporting Information. Proceeds from the sale of Shares, any Dividends paid on such Shares or Dividend Equivalents may be held in a cash account abroad and you are no longer required to report the opening

and maintenance of a foreign account to the Czech National Bank (the “CNB”), unless the CNB notifies you specifically that such reporting is required. Upon request of the CNB, you may need to file a notification within fifteen (15) days of the end of the calendar quarter in which you acquire Shares.

DENMARK

TERMS AND CONDITIONS

Danish Stock Option Act. In accepting the Units, you acknowledge that you have received an Employer Statement translated into Danish, which is being provided to comply with the Danish Stock Option Act. To the extent more favorable to you and required to comply with the Stock Option Act, the terms set forth in the Employer Statement will apply to your participation in the Plan.

NOTIFICATIONS

Foreign Asset/Account Reporting Information. If you establish an account holding Shares or an account holding cash outside of Denmark, you must report the account to the Danish tax authorities. The form which should be used in this respect can be obtained from a local bank. (These obligations are separate from and in addition to the obligations described below.)

Securities/Tax Reporting Information. If you hold Shares acquired under the Plan in a brokerage account with a broker or bank (the “depository”) outside of Denmark, you are required to inform the Danish tax authorities about the account by signing and filing a Form V (*Erklaering V*). It is only necessary to submit a Form V the first time securities are deposited with a depository outside of Denmark. However, if the securities are transferred to a different depository or if you begin using a new depository, a new Form V will be required.

The depository may sign a statement according to which the depository undertakes an obligation, without further request, to forward certain information concerning the Shares on an annual basis to the Danish tax authorities. However, if the depository does not agree to sign such a statement, you will be personally responsible for submitting the required information as an attachment to your annual income tax return. By signing the Form V, you authorize the Danish tax authorities to examine the account. Generally, the Form V must be submitted by the depository no later than on February 1 of the year following the calendar year to which the information relates. However, if you are responsible for submitting the required information, you must submit it as an attachment to your annual income tax return. A sample of Form V can be found at the following website: www.skat.dk.

In addition, if you open a brokerage or bank account with a U.S. bank, the account will be treated as a “deposit account” because cash can be held in the account. Therefore, you also must file a Form K (*Erklaering K*) with the Danish tax authorities. By signing the Form K, you authorize the Danish tax authorities to examine the account. A separate form must be submitted for each account held outside of Denmark that holds Shares or cash which are taxable in Denmark. A sample of Form K can be found at the following website: www.skat.dk.

EGYPT

NOTIFICATIONS

Exchange Control Information. If you transfer funds into Egypt in connection with the Units, you are required to transfer the funds through a registered bank in Egypt.

FINLAND

There are no country-specific provisions.

FRANCE**TERMS AND CONDITIONS**

Language Consent. By accepting the grant, you confirm having read and understood the Plan and Agreement which were provided in the English language. You accept the terms of these documents accordingly.

En acceptant l'attribution, vous confirmez avoir lu et compris le Plan et le Contrat, qui ont été communiqués en langue anglaise. Vous acceptez les termes de ces documents en connaissance de cause.

NOTIFICATIONS

Foreign Asset/Account Reporting Information. French residents and non-residents must declare to the Customs Authorities the cash and securities they import or export without the use of a financial institution when the value of such cash or securities exceeds €10,000. French residents also must report all foreign bank and brokerage accounts on an annual basis (including accounts opened or closed during the tax year) on a specific form together with the income tax return. Failure to comply could trigger significant penalties.

GERMANY**NOTIFICATIONS**

Exchange Control Information. Cross-border payments in excess of €12,500 must be reported monthly to the German Federal Bank (*Bundesbank*). In case of payments in connection with securities (including proceeds realized upon the sale of Shares or the receipt of Dividends or Dividend Equivalents), the report must be made by the 5th day of the month following the month in which the payment was received and must be filed electronically. The form of report (*Allgemeines Meldeportal Statistik*) can be accessed via the *Bundesbank's* website (www.bundesbank.de) and is available in both German and English. You are responsible for satisfying any applicable reporting obligation.

GREECE

There are no country-specific provisions.

HONG KONG**TERMS AND CONDITIONS**

Form of Settlement – Units Payable Only in Shares. Notwithstanding any discretion in Section 9.5 of the Plan or anything to the contrary in the Agreement, the Units do not provide any right for you to receive a cash payment and shall be paid in Shares only.

Sale of Shares. Shares received at vesting are accepted as a personal investment. In the event that Shares are issued in respect of the Units within six (6) months of the Grant Date, you agree that you will not offer to the public or otherwise dispose of the Shares prior to the six (6)-month anniversary of the Grant Date.

NOTIFICATIONS

SECURITIES WARNING: *The contents of this document have not been reviewed by any regulatory authority in Hong Kong. You should exercise caution in relation to the offer. If you are in doubt about any of the contents of the Agreement, including this Appendix, or the Plan, you should obtain independent professional advice. The Units and any Shares issued in respect of the Units do not constitute a public offering of securities under Hong Kong law and are available only to members of the Board and Employees. The Agreement, including this Appendix, the Plan and other incidental communication materials have not been prepared in accordance with and are not intended to constitute a “prospectus” for a public offering of securities under the applicable securities legislation in Hong Kong. The Units and any*

documentation related thereto are intended solely for the personal use of each member of the Board and/or Employee and may not be distributed to any other person.

Nature of Scheme. The Company specifically intends that the Plan will not be an occupational retirement scheme for purposes of the Occupational Retirement Schemes Ordinance.

HUNGARY

There are no country-specific provisions.

ICELAND

NOTIFICATIONS

Exchange Control Information. Approval by the Central Bank of Iceland is no longer required to participate in the Plan, regardless of the value of the Shares acquired under the Plan. Despite the recent relaxation of the exchange control requirements, you should consult with your personal advisor to ensure compliance with applicable exchange control regulations in Iceland as such regulations are subject to frequent change. You are responsible for ensuring compliance with all exchange control laws in Iceland.

INDIA

NOTIFICATIONS

Exchange Control Information. You understand that you must repatriate any cash Dividends paid on Shares acquired under the Plan to India or any Dividend Equivalents paid in cash within one hundred and eighty (180) days of receipt, and any proceeds from the sale of Shares acquired under the Plan within ninety (90) days of receipt, or such other period of time as may be required under applicable regulations. You will receive a foreign inward remittance certificate (“FIRC”) from the bank where you deposit the foreign currency, and you must maintain the FIRC as proof of repatriation of funds in the event that the Reserve Bank of India or the Employer requests proof of repatriation. It is your responsibility to comply with these requirements.

Foreign Asset/Account Reporting Information. You are required to declare foreign bank accounts and any foreign financial assets (including Shares held outside of India) in your annual tax return. It is your responsibility to comply with this reporting obligation and you should consult your personal tax advisor in this regard.

IRELAND

TERMS AND CONDITIONS

Acknowledgement of Nature of Plan and Units. This provision supplements Section XI of the Agreement:

In accepting this Agreement, you understand and agree that the benefits received under the Plan will not be taken into account for any redundancy or unfair dismissal claim.

ITALY

TERMS AND CONDITIONS

Data Privacy Notice. The following provision replaces Section XIV of the Agreement:

Pursuant to Section 13 of Legislative Decree no. 196/2003, you understand that the Employer, the Company and any Affiliate may hold certain personal information about you, including your name, home address and telephone number, email address, date of birth, social insurance (to the extent permitted under Italian law), passport or other

identification number, salary, nationality, job title/work history/service periods, residency status, citizenship, tax withholding and payroll data, any shares or directorships held in the Company or any Affiliate, details of all Awards granted, or any other entitlement to Shares awarded, cancelled, exercised, vested, unvested or outstanding in your favor, for the exclusive purpose of implementing, managing and administering the Plan (“Data”).

You also understand that providing the Company with Data is necessary for the performance of the Plan, which represents the legal basis for the collection, use, processing and transfer of the Data, and that your refusal to provide such Data would make it impossible for the Company to perform its contractual obligations and may affect your ability to participate in the Plan. The Controller of personal data processing is Amgen Inc., with registered offices at One Amgen Center Drive, Thousand Oaks, California 91320, U.S.A., and, pursuant to Legislative Decree no. 196/2003, its Representative in Italy for privacy purposes is Amgen S.r.L., with registered offices at Via Tazzoli, 6 – 20154 Milan, Italy.

You understand that Data will not be publicized, but it may be transferred to banks, other financial institutions, or brokers involved in the management and administration of the Plan. You understand that Data may also be transferred to the independent registered public accounting firm engaged by the Company. You further understand that the Company and/or any Affiliate will transfer Data among themselves as necessary for the purposes of implementing, administering and managing your participation in the Plan, and that the Company and/or any Affiliate may each further transfer Data to third parties assisting the Company in the implementation, administration, and management of the Plan, including any requisite transfer of Data to a broker or other third party with whom you may elect to deposit any Shares acquired at vesting of the Units. Such recipients may receive, possess, use, retain, and transfer Data in electronic or other form, for the purposes of implementing, administering, and managing your participation in the Plan. You understand that these recipients may be located in or outside of the European Economic Area, such as in the United States or elsewhere. Should the Company exercise its discretion in suspending all necessary legal obligations connected with the management and administration of the Plan, it will delete Data as soon as it has completed all the necessary legal obligations connected with the management and administration of the Plan.

You understand that Data processing related to the purposes specified above shall take place under automated or non-automated conditions, anonymously when possible, that comply with the purposes for which Data is collected and with confidentiality and security provisions, as set forth by applicable laws and regulations, with specific reference to Legislative Decree no. 196/2003.

The processing activity, including communication, the transfer of Data abroad, including outside of the European Economic Area, as herein specified and pursuant to applicable laws and regulations, does not require your consent thereto, as the processing is necessary to performance of contractual obligations related to implementation, administration, and management of the Plan. You understand that, pursuant to Section 7 of the Legislative Decree no. 196/2003, you have the right to, including but not limited to, access, delete, update, correct, or terminate, for legitimate reason, the Data processing. You also understand that you have the right to data portability and to lodge a complaint with the Italian supervisory authority.

Furthermore, you are aware that Data will not be used for direct-marketing purposes. In addition, Data provided can be reviewed and questions or complaints can be addressed by contacting your local human resources representative.

Acknowledgement of Nature of Agreement. In accepting this Agreement, you acknowledge that (1) you have received a copy of the Plan, the Agreement and this Appendix; (2) you have reviewed the applicable documents in their entirety and fully understand the contents thereof; and (3) you accept all provisions of the Plan, the Agreement and this Appendix.

For any Units granted, you further acknowledge that you have read and specifically and explicitly approve, without limitation, the following sections of the Agreement: Section I; Section II; Section III; Section VIII; Section X; Section XI; Section XIV (as replaced by the above notice); Section XVI; and Section XVII.

APPENDIX A-10

NOTIFICATIONS

Foreign Asset/Account Reporting Information. Italian residents who, at any time during the fiscal year, hold foreign financial assets (including cash and Shares) which may generate income taxable in Italy are required to report these assets on their annual tax returns (UNICO Form, RW Schedule) for the year during which the assets are held, or on a special form if no tax return is due. These reporting obligations will also apply to Italian residents who are the beneficial owners of foreign financial assets under Italian money laundering provisions.

Foreign Financial Assets Tax. The fair market value of any Shares held outside of Italy is subject to a foreign assets tax. The fair market value is considered to be the value of the Shares on the NASDAQ Global Select Market on December 31 of the applicable year in which you held the Shares (or when the Shares are acquired during the course of the year, the tax is levied in proportion to the actual days of holding over the calendar year). You should consult with your personal tax advisor about the foreign financial assets tax.

JAPAN**NOTIFICATIONS**

Foreign Asset/Account Reporting Information. You will be required to report to the Japanese tax authorities details of any assets held outside of Japan as of December 31st (including any Shares acquired under the Plan) to the extent such assets have a total net fair market value exceeding ¥50,000,000. Such report will be due by March 15 each year. You should consult with your personal tax advisor as to whether the reporting obligation applies to you and whether you will be required to include in the report details of any Shares or cash that you hold.

JORDAN

There are no country-specific provisions.

KOREA**NOTIFICATIONS**

Foreign Asset/Account Reporting Information. You are required to declare all foreign financial accounts (*e.g.* non-Korean bank accounts, brokerage accounts holding Shares, etc.) to the Korean tax authority and file a report regarding such accounts if the monthly balance of such accounts exceeds KRW1,000,000,000 (or an equivalent amount in foreign currency) on any month-end date during a calendar year. It is your responsibility to comply with this reporting obligation and you should consult your personal tax advisor to ensure compliance with this requirement.

LATVIA

There are no country-specific provisions.

LEBANON

Securities Law Information. The Plan does not constitute the marketing or offering of securities in Lebanon pursuant to Law No. 161 (2011), the Capital Markets Law. Offerings under the Plan are being made only to eligible Employees of the Employer, the Company or an Affiliate.

LITHUANIA

There are no country-specific provisions.

MEXICO**TERMS AND CONDITIONS**

Acknowledgement of the Agreement. In accepting the Award granted hereunder, you acknowledge that you have received a copy of the Plan, have reviewed the Plan and the Agreement, including this Appendix, in their entirety and fully understand and accept all provisions of the Plan and the Agreement, including this Appendix. You further acknowledge that you have read and specifically and expressly approve the terms and conditions of Section XI of the Agreement, in which the following is clearly described and established:

- (1) Your participation in the Plan does not constitute an acquired right.
- (2) The Plan and your participation in the Plan are offered by Amgen Inc. on a wholly discretionary basis.
- (3) Your participation in the Plan is voluntary.
- (4) Amgen Inc. and its Affiliates are not responsible for any decrease in the value of the Units granted and/or Shares issued under the Plan.

Labor Law Acknowledgement and Policy Statement. In accepting any Award granted hereunder, you expressly recognize that Amgen Inc., with registered offices at One Amgen Center Drive, Thousand Oaks, California 91320, U.S.A., is solely responsible for the administration of the Plan and that your participation in the Plan and acquisition of Shares do not constitute an employment relationship between you and Amgen Inc. since you are participating in the Plan on a wholly commercial basis and your sole employer is Amgen Mexico S.A. de C.V. ("Amgen-Mexico"). Based on the foregoing, you expressly recognize that the Plan and the benefits that you may derive from participation in the Plan do not establish any rights between you and your Employer, Amgen-Mexico, and do not form part of the employment conditions and/or benefits provided by Amgen-Mexico and any modification of the Plan or its termination shall not constitute a change or impairment of the terms and conditions of your employment.

You further understand that your participation in the Plan is as a result of a unilateral and discretionary decision of Amgen Inc.; therefore, Amgen Inc. reserves the absolute right to amend and/or discontinue your participation in the Plan at any time without any liability to you.

Finally, you hereby declare that you do not reserve to yourself any action or right to bring any claim against Amgen Inc. for any compensation or damages regarding any provision of the Plan or the benefits derived under the Plan, and you therefore grant a full and broad release to Amgen Inc., its Affiliates, shareholders, officers, agents or legal representatives with respect to any claim that may arise.

Spanish Translation

Reconocimiento del Otorgamiento. Al aceptar cualquier Otorgamiento bajo el presente documento, usted reconoce que ha recibido una copia del Plan, que ha revisado el mismo en su totalidad, así como también el Acuerdo de Opción, el Acuerdo, incluyendo este Apéndice, además que comprende y está de acuerdo con todas las disposiciones tanto del Plan y del Otorgamiento, incluyendo este Apéndice. Asimismo, usted reconoce que ha leído y manifiesta específicamente y expresamente la conformidad con los términos y condiciones establecidos en la Sección XI del Acuerdo, en los que se establece y describe claramente que:

- (1) Su participación en el Plan de ninguna manera constituye un derecho adquirido.
- (2) El Plan y su participación en el mismo son ofrecidos por Amgen Inc. de forma completamente discrecional.
- (3) Su participación en el Plan es voluntaria.

APPENDIX A-12

- (4) Amgen Inc. y sus Afiliados no son responsables de ninguna disminución en el valor de Unidades o de las Acciones Comunes emitidas mediante el Plan.

Reconocimiento de la Ley Laboral y Declaración de Política. Al aceptar cualquier Otorgamiento de Acciones bajo el presente, usted reconoce expresamente que Amgen Inc., con oficinas registradas localizadas en One Amgen Center Drive, Thousand Oaks, California 91320, U.S.A., es la única responsable de la administración del Plan y que su participación en el mismo y la adquisición de Acciones Comunes no constituyen de ninguna manera una relación laboral entre usted y Amgen Inc., debido a que su participación en el Plan es únicamente una relación comercial y que su único empleador es Amgen Mexico S.A. de C.V. ("Amgen-México"). Derivado de lo anterior, usted reconoce expresamente que el Plan y los beneficios a su favor que pudieran derivar de la participación en el mismo, no establecen ningún derecho entre usted y su empleador, Amgen – México, y no forman parte de las condiciones laborales y/o los beneficios otorgados por Amgen – México, y cualquier modificación del Plan o la terminación del mismo no constituirá un cambio o desmejora de los términos y condiciones de su trabajo.

Asimismo, usted entiende que su participación en el Plan es resultado de la decisión unilateral y discrecional de Amgen Inc., por lo tanto, Amgen Inc. se reserva el derecho absoluto de modificar y/o discontinuar su participación en el Plan en cualquier momento y sin ninguna responsabilidad para usted.

Finalmente, usted manifiesta que no se reserva ninguna acción o derecho que origine una demanda en contra de Amgen Inc., por cualquier compensación o daños y perjuicios, en relación con cualquier disposición del Plan o de los beneficios derivados del mismo, y en consecuencia usted exime amplia y completamente a Amgen Inc. de toda responsabilidad, como así también a sus Afiliadas, accionistas, directores, agentes o representantes legales con respecto a cualquier demanda que pudiera surgir.

NETHERLANDS

NOTIFICATIONS

Securities Law Information.

**Attention! This investment falls outside AFM supervision.
No prospectus required for this activity.**



NORWAY

There are no country-specific provisions.

POLAND

NOTIFICATIONS

Exchange Control Information. Polish residents holding foreign securities (including Shares) and maintaining accounts abroad must file reports with the National Bank of Poland if the aggregate value of Shares and cash held in such foreign accounts exceeds PLN 7,000,000. If required, the reports are due on a quarterly basis by the 20th day following the end of each quarter and must be filed on special forms available on the website of the National Bank of Poland. In addition, Polish residents are required to transfer funds through a bank account in Poland if the transferred amount in any single transaction exceeds a specified threshold (currently €15,000 (or PLN 15,000 if such transfer of funds is associated with the business activity of a consultant)). You must store all documents connected with any foreign exchange transactions you engage in for a period of five (5) years from the end of the year when such transactions were made. Penalties may apply for failure to comply with exchange control requirements.

PORTUGAL**TERMS AND CONDITIONS**

Consent to Receive Information in English. You hereby expressly declare that you have full knowledge of the English language and have read, understood and fully accepted and agreed with the terms and conditions established in the Plan and Agreement.

Conhecimento da Língua. *Por meio do presente, eu declaro expressamente que tem pleno conhecimento da língua inglesa e que li, compreendi e livremente aceitei e concordei com os termos e condições estabelecidas no Plano e no Acordo.*

PUERTO RICO

There are no country-specific provisions.

ROMANIA**NOTIFICATIONS**

Exchange Control Information. Any transfer of funds exceeding €15,000 (whether via one transaction or several transactions that appear to be linked to each other) must be reported to the National Office for Prevention and Control of Money Laundering on specific forms by the relevant bank or financial institution. If you deposit proceeds from the sale of Shares or the receipt of Dividends or Dividend Equivalents in a bank account in Romania, you may be required to provide the Romanian bank assisting with the transaction with appropriate documentation explaining the source of the income. You should consult with a legal advisor to determine whether you will be required to submit such documentation to the Romanian bank.

RUSSIA**TERMS AND CONDITIONS**

Exchange Control Requirements. You understand and agree that, pursuant to Russian exchange control requirements, you will be required to repatriate to Russia the cash proceeds from the sale of the Shares issued to you upon settlement of the Units and from the receipt of any Dividend Equivalents paid on such Shares, unless such proceeds will be paid into and held in your brokerage account in the U.S., for example, for reinvestment purposes. As an express statutory exception to this requirement, cash Dividends (but not Dividend Equivalents) paid on Shares can be paid directly into a foreign bank or brokerage account opened with a foreign bank located in Organisation for Economic Co-operation and Development (“OECD”) or Financial Action Task Force (“FATF”) countries, without first remitting them to a bank account in Russia. As of January 1, 2018, cash proceeds from the sale of shares listed on one of the foreign stock exchanges on the list provided for by the Russian Federal law “On the Securities Market” can also be paid directly to a foreign bank or brokerage account opened with a bank located in an OECD or FATF country. Other statutory exceptions may apply, and you should consult with your personal legal advisory in this regard.

You further agree to comply with any other requirements that may be imposed by the Company in the future in order to facilitate compliance with exchange control requirements in Russia. Without limiting the generality of the foregoing, you acknowledge that the Company reserves the right, in its sole discretion depending on developments in Russian exchange control laws and regulations, to force the immediate sale of any Shares to be issued upon vesting of the Units. You further agree that, if applicable, the Company is authorized to instruct Merrill Lynch Bank & Trust Co., FSB (or such other broker as may be designated by the Company) to assist with the mandatory sale of such Shares (on your behalf pursuant to this authorization) and you expressly authorize Merrill Lynch Bank & Trust Co., FSB (or such other broker as may be designated by the Company) to complete the sale of such Shares. You further acknowledge that Merrill Lynch Bank & Trust Co., FSB (or such other broker as may be designated by the Company) is under no obligation to arrange for the sale of the Shares at any particular trading price. Upon the sale of Shares, you will receive the cash

proceeds from the sale of Shares, less any brokerage fees or commissions and subject to your obligations in connection with the Tax Obligations.

Securities Law Requirements. Any Units granted hereunder, the Agreement, including this Appendix, the Plan and all other materials you may receive regarding your participation in the Plan or any Units granted hereunder do not constitute advertising or an offering of securities in Russia. The issuance of Shares under the Plan has not and will not be registered in Russia; therefore, Shares may not be offered or placed in public circulation in Russia.

In no event will Shares acquired under the Plan be delivered to you in Russia; all Shares will be maintained on your behalf in the United States.

You are not permitted to sell any Shares acquired under the Plan directly to a Russian legal entity or resident.

Labor Law Acknowledgement. You acknowledge that if you continue to hold Shares acquired under the Plan after an involuntary termination of your employment, you will not be eligible to receive unemployment benefits in Russia.

Data Privacy Notice. The following provision supplements Section XIV of the Agreement:

You understand and agree that you must complete and return a Consent to Processing of Personal Data (the “Consent”) form to the Company. Further, you understand and agree that if you do not complete and return a Consent form to the Company, the Company will not be able to administer or maintain the Units. Therefore, you understand that refusing to complete a Consent form or withdrawing your consent may affect your ability to participate in the Plan.

NOTIFICATIONS

Foreign Asset/Account Reporting Information. Russian residents are required to notify Russian tax authorities within one (1) month of opening, closing or changing the details of a foreign account. Russian residents also are required to report (i) the beginning and ending balances in such a foreign bank account each year and (ii) transactions related to such a foreign account during the year to the Russian tax authorities, on or before June 1 of the following year. The tax authorities can require you to provide appropriate supporting documents related to transactions in a foreign bank account. You are encouraged to contact your personal advisor before remitting your proceeds from participation in the Plan to Russia as exchange control requirements may change.

Anti-Corruption Legislation Information. Individuals holding public office in Russia, as well as their spouses and dependent children, may be prohibited from opening or maintaining a foreign brokerage or bank account and holding any securities, whether acquired directly or indirectly, in a foreign company (including Shares acquired under the Plan). You should consult with your personal legal advisor to determine whether this restriction applies to your circumstances.

SINGAPORE

TERMS AND CONDITIONS

Restriction on Sale and Transferability. You hereby agree that any Shares acquired pursuant to the Units will not be offered for sale in Singapore prior to the six-month anniversary of the Grant Date, unless such sale or offer is made pursuant to one or more exemptions under Part XIII Division 1 Subdivision (4) (other than section 280) of the Securities and Futures Act (Chap. 289, 2006 Ed.) (“SFA”).

NOTIFICATIONS

Securities Law Information. The grant of the Units is being made pursuant to the “Qualifying Person” exemption under section 273(1)(f) of the SFA, on which basis it is exempt from the prospectus and registration requirements under the SFA, and is not made with a view to the Units being subsequently offered for sale to any other party. The Plan has not been lodged or registered as a prospectus with the Monetary Authority of Singapore.

Chief Executive Officer and Director Notification Requirement. The Chief Executive Officer (“CEO”) and the directors (including alternate, substitute, associate and shadow directors) of a Singapore Affiliate are subject to certain notification requirements under the Singapore Companies Act. The CEO and directors of a Singapore Affiliate must notify the Singapore Affiliate in writing of an interest (*e.g.*, Units, Shares, etc.) in the Company or any related company within two (2) business days of (i) its acquisition or disposal, (ii) any change in a previously disclosed interest (*e.g.*, when the Shares are sold), or (iii) becoming the CEO or a director.

SLOVAK REPUBLIC

There are no country-specific provisions.

SLOVENIA

There are no country-specific provisions.

SPAIN

TERMS AND CONDITIONS

Labor Law Acknowledgement. The following provision supplements Section XI of the Agreement:

By accepting the Units granted hereunder, you consent to participation in the Plan and acknowledge that you have received a copy of the Plan.

You understand that the Company has unilaterally, gratuitously and in its sole discretion decided to grant any Units under the Plan to individuals who may be members of the Board or Employees of the Company or its Affiliates throughout the world. The decision is a limited decision, which is entered into upon the express assumption and condition that any Units granted will not economically or otherwise bind the Company or any of its Affiliates on an ongoing basis, other than as expressly set forth in the Agreement, including this Appendix. Consequently, you understand that the Units granted hereunder are given on the assumption and condition that they shall not become a part of any employment contract (either with the Company or any of its Affiliates) and shall not be considered a mandatory benefit, salary for any purposes (including severance compensation) or any other right whatsoever. Further, you understand and freely accept that there is no guarantee that any benefit whatsoever shall arise from any gratuitous and discretionary grant of Units since the future value of the Units and the underlying Shares is unknown and unpredictable. In addition, you understand that any Units granted hereunder would not be made but for the assumptions and conditions referred to above; thus, you understand, acknowledge and freely accept that, should any or all of the assumptions be mistaken or should any of the conditions not be met for any reason, then any grant of Units or right to Units shall be null and void.

Further, the vesting of the Units is expressly conditioned on your continued and active rendering of service, such that if your employment terminates for any reason whatsoever, the Units may cease vesting immediately, in whole or in part, effective on the date of your termination of employment (unless otherwise specifically provided in Section I of the Agreement). This will be the case, for example, even if (1) you are considered to be unfairly dismissed without good cause (*i.e.*, subject to a “despido improcedente”); (2) you are dismissed for disciplinary or objective reasons or due to a collective dismissal; (3) you terminate service due to a change of work location, duties or any other employment or contractual condition; (4) you terminate service due to a unilateral breach of contract by the Company or an Affiliate; or (5) your employment terminates for any other reason whatsoever. Consequently, upon termination of your employment for any of the above reasons, you may automatically lose any rights to Units that were not vested on the date of your termination of employment, as described in the Plan and the Agreement.

You acknowledge that you have read and specifically accept the conditions referred to in Section I of the Agreement.

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NOTIFICATIONS

Securities Law Information. No “offer of securities to the public,” as defined under Spanish law, has taken place or will take place in the Spanish territory. The Agreement (including this Appendix) has not been nor will it be registered with the *Comisión Nacional del Mercado de Valores*, and does not constitute a public offering prospectus.

Exchange Control Information. If you acquire Shares under the Plan, you must declare the acquisition to the *Dirección General de Comercio e Inversiones* (the “**DGCI**”). If you acquire the Shares through the use of a Spanish financial institution, that institution will automatically make the declaration to the DGCI for you; otherwise, you will be required to make the declaration by filing a D-6 form. You must declare ownership of any Shares with the DGCI each January while the Shares are owned and must also report, in January, any sale of Shares that occurred in the previous year for which the report is being made, unless the sale proceeds exceed the applicable threshold, in which case the report is due within one (1) month of the sale.

Foreign Asset/Account Reporting Information. You are required to declare electronically to the Bank of Spain any securities accounts (including brokerage accounts held abroad), as well as the Shares held in such accounts if the value of the transactions during the prior tax year or the balances in such accounts as of December 31 of the prior tax year exceed €1,000,000.

To the extent that you hold Shares and/or have bank accounts outside of Spain with a value in excess of €50,000 (for each type of asset) as of December 31 each year, you will be required to report information on such assets in your tax return (tax form 720) for such year. After such Shares and/or accounts are initially reported, the reporting obligation will apply for subsequent years only if the value of any previously-reported Shares or accounts increases by more than €20,000 or if you sell or otherwise dispose of previously-reported Shares or accounts. If the value of such Shares and/or accounts as of December 31 does not exceed €50,000, a summarized form of declaration may be presented.

SWEDEN

There are no country-specific provisions.

SWITZERLAND**NOTIFICATIONS**

Securities Law Information. The Awards are not intended to be publicly offered in or from Switzerland. Because this is a private offering in Switzerland, the Units are not subject to registration in Switzerland. Neither this document nor any other materials relating to the Units (i) constitutes a prospectus as such term is understood pursuant to article 652a of the Swiss Code of Obligations, (ii) may be publicly distributed nor otherwise made publicly available in Switzerland or (iii) have been or will be filed with, approved or supervised by any Swiss regulatory authority, including the Swiss Financial Market Supervisory Authority (“FINMA”).

TAIWAN**NOTIFICATIONS**

Exchange Control Information. You may acquire and remit foreign currency (including proceeds from the sale of Shares or the receipt of Dividends or Dividend Equivalents) up to US\$5,000,000 per year without justification. If the transaction amount is TWD500,000 or more in a single transaction, you must submit a Foreign Exchange Transaction Form. If the transaction amount is US\$500,000 or more in a single transaction, you must also provide supporting documentation to the satisfaction of the remitting bank.

THAILAND**NOTIFICATIONS**

Exchange Control Information. If proceeds from the sale of Shares or the receipt of any Dividends or Dividend Equivalents exceed US\$50,000, you must (i) immediately repatriate such funds to Thailand and (ii) report the inward remittance to the Bank of Thailand on a Foreign Exchange Transaction Form. In addition, within three hundred and sixty (360) days of repatriation, you must either convert any funds repatriated to Thailand to Thai Baht or deposit the funds in a foreign exchange account with a Thai bank.

TURKEY**NOTIFICATIONS**

Securities Law Information. The Units are made available only to employees of the Company and its Affiliates, and the offer of participation in the Plan is a private offering. The grant of the Award and the issuance of Shares at vesting takes place outside of Turkey.

Exchange Control Information. Any activity related to investments in foreign securities (*e.g.*, the sale of Shares under the Plan, the receipt of cash Dividends or Dividend Equivalents paid in cash) must be conducted through a bank or financial intermediary institution licensed by the Turkish Capital Markets Board and should be reported to the Turkish Capital Markets Board by the bank or intermediary assisting with the transaction. You should contact a personal legal advisor for further information regarding these requirements.

UNITED ARAB EMIRATES**NOTIFICATIONS**

Securities Law Information. Units under the Plan are granted only to select Board members and Employees of the Company and its Affiliates and are for the purpose of providing equity incentives. The Plan and the Agreement are intended for distribution only to such Board members and Employees and must not be delivered to, or relied on by, any other person. You should conduct your own due diligence on the Units offered pursuant to this Agreement. If you do not understand the contents of the Plan and/or the Agreement, you should consult an authorized financial adviser. The Emirates Securities and Commodities Authority and the Dubai Financial Services Authority have no responsibility for reviewing or verifying any documents in connection with the Plan. Further, the Ministry of the Economy and the Dubai Department of Economic Development have not approved the Plan or the Agreement nor taken steps to verify the information set out therein, and have no responsibility for such documents.

UNITED KINGDOM**TERMS AND CONDITIONS**

Tax Withholding. This provision supplements Section III of the Agreement:

Without limitation to Section III of the Agreement, you agree that you are liable for all Tax Obligations and hereby covenant to pay all such Tax Obligations as and when requested by the Company or your Employer or by Her Majesty's Revenue and Customs ("HMRC") (or any other tax authority or any other relevant authority). You also agree to indemnify and keep indemnified the Company and your Employer against any taxes that they are required to pay or withhold or have paid or will pay to HMRC (or any other tax authority or any other relevant authority) on your behalf.

Notwithstanding the foregoing, if you are an executive officer or director (as within the meaning of Section 13(k) of the Exchange Act, as amended from time to time), you understand that you may not be able to indemnify the Company or your Employer for the amount of income tax not collected from or paid by you, as it may be considered a loan. In

the event that you are an executive officer or director and income tax is not collected from you within ninety (90) days after the end of the tax year in which the Taxable Event occurs, the amount of any uncollected income tax may constitute an additional benefit to you on which additional income tax and national insurance contributions (“NICs”) may be payable. You acknowledge that you are responsible for reporting and paying any income tax due on this additional benefit directly to HMRC under the self-assessment regime and for reimbursing your Employer for the value of any NICs due on this additional benefit, which the Company or your Employer may recover from you by any of the means set forth in Section III of the Agreement.

If the maximum applicable withholding rate is used, any over-withheld amount may be credited to you by the Company or your Employer (with no entitlement to the Common Stock equivalent) or if not so credited, you may seek a refund from the local tax authorities.

Joint Election. As a condition of the Units granted hereunder, you agree to accept any liability for secondary Class 1 National Insurance Contributions (the “Employer NICs”), which may be payable by the Company or your Employer with respect to the Units and/or payment of the Units and issuance of Shares pursuant to the Units, the assignment or release of the Units for consideration, or the receipt of any other benefit in connection with the Units.

Without limitation to the foregoing, you agree to make an election (the “Election”), in the form specified and/or approved for such election by HMRC, that the liability for your Employer NICs payments on any such gains shall be transferred to you to the fullest extent permitted by law. You further agree to execute such other elections as may be required between you and any successor to the Company and/or your Employer. You hereby authorize the Company and your Employer to withhold such Employer NICs by any of the means set forth in Section III of the Agreement.

Failure by you to enter into an Election, withdrawal of approval of the Election by HMRC or a joint revocation of the Election by you and the Company or your Employer, as applicable, shall be grounds for the forfeiture and cancellation of the Units, without any liability to the Company or your Employer.

UNITED STATES

TERMS AND CONDITIONS

Termination of Employment. The following provision replaces Section I(i) of the Agreement:

(i) “termination of your active employment” shall mean the last date that you are either an active employee of the Company or an Affiliate or actively engaged as a Director of the Company or an Affiliate; in the event of termination of your employment (whether or not in breach of local labor laws), your right to receive Units and vest under the Plan, if any, will terminate effective as of the date that you are no longer actively employed; *provided, however*, that such right will be extended by any notice period mandated by law (*e.g.*, the Worker Adjustment and Retraining Notification Act (“WARN Act”) notice period or similar periods pursuant to local law) and any paid administrative leave (as applicable), unless the Company shall provide you with written notice otherwise before the commencement of such notice period or leave; *provided further*, that notwithstanding the effect of any such extension, in no event will the Units be paid later than the 90th day following your termination of employment;

CASH-SETTLED RESTRICTED STOCK UNIT AGREEMENT
(Director Equity Incentive Program)

_____, Amgen Inc. Grantee:

On this __ day of _____ (the "Grant Date"), Amgen Inc., a Delaware corporation (the "Company"), pursuant to its Amgen Inc. 2009 Director Equity Incentive Program (as amended and/or restated from time to time, the "Program") has granted to you, the grantee named above, an award (the "Award") of _____ restricted stock units (the "Units") with respect to _____ Shares on the terms and conditions set forth in this Restricted Stock Unit Agreement, including any appendix hereto (as further described in Section XV below) containing special terms and conditions applicable to your country (collectively, this "Agreement"). Capitalized terms not defined herein shall have the meanings assigned to such terms in the Program.

I. Non-Plan Grant. The Award and the Units granted hereunder are granted as a stand-alone award, separate and apart from, and not granted under, or subject to, the terms of the Amgen Inc. Amended and Restated 2009 Equity Incentive Plan, as amended and/or restated from time to time (the "Plan"), and the Award shall not constitute an award granted under or pursuant to the Plan. Notwithstanding the foregoing, the terms, conditions and definitions set forth in the Plan shall apply to the Award as though the Award had been granted under the Plan (including but not limited to the provisions contained in Article 12 and Section 13.2 of the Plan), and the Award shall be subject to such terms, conditions and definitions, which are hereby incorporated into this Agreement by reference. For the avoidance of doubt, the Units shall not count towards the number of Shares authorized for grant under Section 3.1(a) of the Plan but shall count towards the Director Limit set forth in Section 3.4 of the Plan.

II. Vesting Schedule. Subject to the terms and conditions of this Agreement and in consideration for services previously rendered by you, one hundred percent (100%) of the Units shall vest upon the Grant Date (the "Vesting Date").

III. Form and Timing of Settlement. Any vested Units shall be settled by the Company delivering to you an amount in cash equal to the Fair Market Value (as defined in the Plan) of the number of Shares covered by this Award on the applicable Deferred Payment Date that you elected pursuant to the Program.

IV. Transferability. No benefit payable under, or interest in, this Agreement shall be subject in any manner to anticipation, alienation, sale, transfer, assignment, pledge, encumbrance or charge and any such attempted action shall be void and no such benefit or interest shall be, in any manner, liable for, or subject to, your or your beneficiary's debts, contracts, liabilities or torts; *provided, however*, nothing in this Section IV shall prevent transfer (i) by will, (ii) by applicable laws of descent and distribution or (iii) to an Alternate Payee to the extent that a QDRO so provides, as further described in the Program.

V. No Contract for Employment. This Agreement is not an employment or service contract and nothing in this Agreement shall be deemed to create in any way whatsoever any obligation on your part to continue in the employ or service of the Company or any Affiliate, or of the Company or any Affiliate to continue your employment or service with the Company or any Affiliate.

VI. Notices. Any notices provided for in this Agreement or the Program shall be given in writing or electronically and shall be deemed effectively given upon receipt or, in the case of notices delivered by the Company to you, five (5) days after deposit in the United States mail or equivalent foreign postal service, postage prepaid, addressed to you at such address as is currently maintained in the Company's records or at such other address as you hereafter designate by written notice to the Company. Such notices may be given using any automated system for the documentation of Units, such as a system using an internet website or interactive voice response, as approved by the Company.

VII. Nature of Grant. In accepting the Units granted hereunder, you acknowledge, understand and agree that:

- (a) the Program is established voluntarily by the Company, are discretionary in nature and may be modified, amended, suspended or terminated by the Company at any time;
- (b) the grant of the Units is voluntary and occasional and does not create any contractual or other right to receive future grants of Units, or benefits in lieu of Units, even if Units have been granted repeatedly in the past;
- (c) your participation in the Program is voluntary;
- (d) all decisions with respect to future awards, if any, will be at the sole discretion of the Company;
- (e) the future value of the underlying Shares is unknown and cannot be predicted with certainty; and
- (f) the Units and the benefits under the Program, if any, will not automatically transfer to another company in the case of a merger, takeover or transfer of liability.

VIII. No Advice Regarding Grant. The Company is not providing any tax, legal or financial advice, nor is the Company making any recommendations regarding your participation in the Program. You should consult with your own personal tax, legal and financial advisors regarding your participation in the Program before taking any action related to the Program.

IX. Data Privacy and Notice of Consent. *You hereby expressly consent to the collection, use and transfer, in electronic or other form, of your personal data as described in this Agreement for the purpose of implementing, administering and managing your participation in the Program. In order for the Company to facilitate your participation in the Program, the Company must collect and use personal data about you. In accordance with applicable laws, reasonable security measures will be implemented and maintained to protect the security of your personal data; however, you understand that absolute security cannot be guaranteed.*

You authorize the transfer of your personal data to Merrill Lynch Bank & Trust Co., FSB (or any successor thereto) or any other third parties which may assist the Company (presently or in the future) with implementing, administering, and managing your participation in the Program to receive, possess, use, retain and transfer your personal data, in electronic or other form, for the purpose of implementing, administering and managing your participation in the Program. You understand that such authorized recipients of your personal data may be located in countries that do not provide the same level of data privacy laws and protections as the country in which your personal data originated. Where permitted by applicable law, you may, at any time, request access or correction to, or destruction or data portability of your personal data by contacting the Company. You understand that refusal or withdrawal of consent may affect your ability to participate in the Program. For more information on the consequences of your refusal to consent or withdrawal of consent, you understand that you may contact the Company.

X. Language. If you have received this Agreement or any other document related to the Program translated into a language other than English and if the meaning of the translated version differs from the English version, the English version shall control.

XI. Electronic Delivery. The Company may, in its sole discretion, decide to deliver any documents related to current or future participation in the Program (including this Agreement) by electronic means. You hereby consent to receive such documents by electronic delivery and agree to participate in the Program through an online or electronic system established and maintained by the Company or a third party designated by the Company.

XII. Severability. The provisions of this Agreement are severable and if any one or more are determined to be illegal or otherwise unenforceable, in whole or in part, the remaining provisions shall nevertheless be binding and enforceable.

XIII. Program. This Agreement is subject to all the provisions of the Program and its provisions are hereby made a part of this Agreement, and it is further subject to all interpretations, amendments, rules and regulations which may from time to time be promulgated and adopted pursuant to the Program. In the event of any conflict between the provisions of this Agreement and those of the Program, the provisions of the Program shall control.

XIV. Governing Law and Venue. The terms of this Agreement shall be governed by the laws of the State of Delaware without giving effect to principles of conflicts of laws. For purposes of litigating any dispute that arises hereunder, the parties hereby submit to and consent to the jurisdiction of the State of Delaware, and agree that such litigation shall be conducted in the courts of the State of Delaware, or the federal courts for the United States for the federal district located in the State of Delaware, and no other courts, where this Agreement is made and/or to be performed.

XV. Appendix. Notwithstanding any provisions in this Agreement, Units shall be subject to any special terms and conditions set forth in any Appendix to this Agreement for your country. Moreover, if you relocate to one of the countries included in the Appendix, the special terms and conditions for such country will apply to you, to the extent the Company determines that the application of such terms and conditions is necessary or advisable in order to comply with local law or facilitate the administration of the Program. The Appendix constitutes part of this Agreement.

XVI. Imposition of Other Requirements. The Company reserves the right to impose other requirements on the Units to the extent the Company determines it is necessary or advisable in order to comply with local law or facilitate the administration of the Program, and to require you to sign any additional agreements or undertakings that may be necessary to accomplish the foregoing.

XVII. Waiver. You acknowledge that a waiver by the Company of breach of any provision of this Agreement shall not operate or be construed as a waiver of any other provision of this Agreement, or of any subsequent breach by you or any other grantee.

XVIII. Dividend Equivalent Rights. Each Unit granted hereunder shall be credited with a corresponding Dividend Equivalent right, pursuant to which, if the Company declares one or more dividends or distributions (each, a "Dividend") on its Common Stock with a record date which occurs during the period commencing on the Grant Date through and including the day immediately preceding the day that cash is delivered to you in settlement of your Units, then on the date such Dividend is paid to the Company's stockholders you shall be credited with an amount equal to the amount or Fair Market Value of such Dividend which would have been payable to you if you then held a number of Shares equal to the number of the Shares covered by your Units as of the record date for such Dividend. Any such Dividend Equivalents shall be credited and deemed reinvested in the Shares as of the Dividend payment date. Dividend Equivalents shall be settled by the Company on the Deferred Payment Date. Dividend Equivalents shall be settled by the Company delivering to you an amount in cash equal to the Fair Market Value of the number of Shares covered by the Dividend Equivalent right. Dividend Equivalent rights and any amounts that may become distributable in respect thereof shall be treated separately from the Units and the rights arising in connection therewith for purposes of the designation of time and form of payments required by Section 409A of the Code (together with any Department of Treasury regulations and other interpretive guidance issued thereunder, including without limitation any such regulations or other guidance that may be issued after the Effective Date, "Section 409A").

XIX. Section 409A. To the extent that this Award constitutes a "non-qualified deferred compensation plan" within the meaning of Section 409A, this Award shall be interpreted and operated in accordance with Section 409A. Notwithstanding any provision of this Award to the contrary, in the event that following the grant of any Units, the Board determines that this Award does or may violate any of the requirements of Section 409A, the Board may adopt such amendments to the Award or adopt other policies and procedures (including amendments, policies and procedures with retroactive effect), or take any other actions, that the Board determines are necessary or appropriate to (a) exempt the Award from the application of Section 409A and/or preserve the intended tax treatment of the benefits

provided with respect to the Award, or (b) comply with the requirements of Section 409A; *provided, however*, that this paragraph shall not create an obligation on the part of the Board to adopt any such amendment, policy or procedure or take any such other action. No payment hereunder shall be made to you during the six (6)-month period following your "separation from service" (within the meaning of Section 409A) to the extent that the Company determines that paying such amount at the time set forth herein would be a prohibited distribution under Section 409A(a)(2)(B)(i). If the payment of any such amounts is delayed as a result of the previous sentence, then within thirty (30) days following the end of such six (6)-month period (or, if earlier, your death), the Company shall pay to you (or to your estate) the cumulative amounts that would have otherwise been payable to you during such period, without interest.

XX. Headings. This Agreement's section headings are for convenience only and shall not constitute a part of this Agreement or affect this Agreement's meaning.

XXI. Counterparts. This Agreement may be executed in any number of multiple counterparts, each of which shall be deemed to be an original copy and all of which shall constitute one agreement.

Very truly yours,
AMGEN INC.

By: _____
Name:
Title:

Accepted and Agreed,
this ___ day of _____, 20__.

By: _____
Name:

APPENDIX A**ADDITIONAL TERMS AND CONDITIONS OF THE
AMGEN INC. 2009 DIRECTOR EQUITY INCENTIVE PROGRAM,
AS AMENDED AND/OR RESTATED
FROM TIME TO TIME****GRANT OF RESTRICTED STOCK UNITS
(NON-U.S.)*****TERMS AND CONDITIONS***

This Appendix includes additional terms and conditions that govern any Units granted under the Program if, under applicable law, you are a resident of, or are deemed to be a resident of one of the countries listed below. Furthermore, the additional terms and conditions that govern any Units granted hereunder may apply to you if you relocate to one of the countries listed below. Certain capitalized terms used but not defined in this Appendix A shall have the meanings set forth in the Program and/or the Agreement to which this Appendix is attached.

NOTIFICATIONS

This Appendix also includes notifications relating to exchange control and other issues of which you should be aware with respect to your participation in the Program. The information is based on the exchange control, securities and other laws in effect in the countries to which this Appendix refers as of October 2016. Such laws are often complex and change frequently. As a result, the Company strongly recommends that you not rely on the notifications herein as the only source of information relating to the consequences of your participation in the Program because the information may be outdated when you vest in the Units under the Program.

In addition, the notifications are general in nature and may not apply to your particular situation, and the Company is not in a position to assure you of any particular result. Accordingly, you are advised to seek appropriate professional advice as to how the relevant laws in your country may apply to your situation. Finally, if you are a citizen or resident of a country other than the one in which you are currently working, the information contained herein may not be applicable to you or you may be subject to the provisions of one or more jurisdictions.

ALL NON-U.S. JURISDICTIONS***NOTIFICATIONS***

Foreign Asset/Account Reporting Information. Your country of residence may have certain foreign asset and/or account reporting requirements which may affect your ability to acquire or hold cash received from participating in the Program (including from any Dividends or Dividend Equivalents received) in a brokerage or bank account outside of your country. You may be required to report such accounts, assets or transactions to the tax or other authorities in your country. You are responsible for ensuring your compliance with such regulations, and you should speak with your personal legal advisor on this matter.

FRANCE***TERMS AND CONDITIONS***

Language Consent. By accepting the grant, you confirm having read and understood the Program and Agreement which were provided in the English language. You accept the terms of those documents accordingly.

En acceptant l'attribution, vous confirmez avoir lu et compris le Program et le Contrat, qui ont été communiqués en langue anglaise. vous acceptez les termes de ces documents en connaissance de cause.

NOTIFICATIONS

Foreign Asset/Account Reporting Information. French residents and non-residents must declare to the Customs Authorities the cash and securities they import or export without the use of a financial institution when the value of such cash or securities exceeds €10,000. French residents also must report all foreign bank and brokerage accounts on an annual basis (including accounts opened or closed during the tax year) on a specific form together with the income tax return. Failure to comply could trigger significant penalties.

SWITZERLAND**NOTIFICATIONS**

Securities Law Information. The Award is not intended to be publicly offered in or from Switzerland. Because this is a private offering in Switzerland, the Units are not subject to registration in Switzerland. Neither this document nor any other materials relating to the Units (i) constitutes a prospectus as such term is understood pursuant to article 652a of the Swiss Code of Obligations, (ii) may be publicly distributed nor otherwise made publicly available in Switzerland or (iii) have been or will be filed with, approved or supervised by any Swiss regulatory authority, including the Swiss Financial Market Supervisory Authority ("FINMA").

Appendix A-2

AMGEN INC.

The following is a list of subsidiaries of the Company as of December 31, 2017, omitting some subsidiaries which, considered in the aggregate, would not constitute a significant subsidiary.

| SUBSIDIARY (Name under which subsidiary does business) | STATE OF OTHER JURISDICTION OF INCORPORATION OR ORGANIZATION |
|---|---|
| Amgen (Europe) GmbH | Switzerland |
| Amgen Fremont Inc. | Delaware |
| Amgen Global Finance B.V. | Netherlands |
| Amgen Holding No. 1 | Bermuda |
| Amgen Manufacturing, Limited | Bermuda |
| Amgen Rockville, Inc. | Delaware |
| Amgen SF, LLC | Delaware |
| Amgen Technology (Ireland) | Ireland |
| Amgen Technology, Limited | Bermuda |
| Amgen USA Inc. | Delaware |
| Amgen Worldwide Holdings B.V. | Netherlands |
| ATL Holdings Limited | Bermuda |
| ATL Holdings II Limited | Bermuda |
| BioVex, Inc. | Delaware |
| Immunex Corporation | Washington |
| Immunex Rhode Island Corporation | Delaware |
| Onyx Pharmaceuticals, Inc. | Delaware |
| Onyx Therapeutics, Inc. | Delaware |

CERTIFICATIONS

I, Robert A. Bradway, Chairman of the Board, Chief Executive Officer and President of Amgen Inc., certify that:

1. I have reviewed this Annual Report on Form 10-K of Amgen Inc.;
2. Based on my knowledge, this annual report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this annual report;
3. Based on my knowledge, the financial statements, and other financial information included in this annual report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this annual report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this annual report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this annual report based on such evaluation; and
 - (d) Disclosed in this annual report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 13, 2018

/s/ ROBERT A. BRADWAY

Robert A. Bradway
Chairman of the Board,
Chief Executive Officer and President

CERTIFICATIONS

I, David W. Meline, Executive Vice President and Chief Financial Officer of Amgen Inc., certify that:

1. I have reviewed this Annual Report on Form 10-K of Amgen Inc.;
2. Based on my knowledge, this annual report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this annual report;
3. Based on my knowledge, the financial statements, and other financial information included in this annual report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this annual report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this annual report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this annual report based on such evaluation; and
 - (d) Disclosed in this annual report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 13, 2018

/s/ DAVID W. MELINE

David W. Meline

Executive Vice President and Chief Financial Officer

Certification of Chief Executive Officer

Pursuant to 18 U.S.C. § 1350, as created by Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned officer of Amgen Inc. (the “Company”) hereby certifies that:

- (i) the accompanying Annual Report on Form 10-K of the Company for the period ended December 31, 2017 (the “Report”) fully complies with the requirements of Section 13(a) or Section 15(d), as applicable, of the Securities Exchange Act of 1934, as amended; and
- (ii) information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 13, 2018

/s/ ROBERT A. BRADWAY

Robert A. Bradway
Chairman of the Board,
Chief Executive Officer and President

A signed original of this written statement required by Section 906 of the Sarbanes-Oxley Act of 2002 (“Section 906”), or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement required by Section 906, has been provided to Amgen Inc. and will be retained by Amgen Inc. and furnished to the Securities and Exchange Commission or its staff upon request.

Certification of Chief Financial Officer

Pursuant to 18 U.S.C. § 1350, as created by Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned officer of Amgen Inc. (the “Company”) hereby certifies that:

- (i) the accompanying Annual Report on Form 10-K of the Company for the period ended December 31, 2017 (the “Report”) fully complies with the requirements of Section 13(a) or Section 15(d), as applicable, of the Securities Exchange Act of 1934, as amended; and
- (ii) information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 13, 2018

/s/ DAVID W. MELINE

David W. Meline

Executive Vice President and Chief Financial Officer

A signed original of this written statement required by Section 906 of the Sarbanes-Oxley Act of 2002 (“Section 906”), or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement required by Section 906, has been provided to Amgen Inc. and will be retained by Amgen Inc. and furnished to the Securities and Exchange Commission or its staff upon request.