UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

FORM 11-K

(Mark One)

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

For the fiscal year ended December 31, 2018

OR

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

Commission file number 001-37702

THE RETIREMENT AND SAVINGS PLAN FOR AMGEN MANUFACTURING, LIMITED

State Road 31, Kilometer 24.6, Juncos, Puerto Rico 00777 (Full title and address of the plan)

AMGEN INC.

(Name of issuer of the securities held)

One Amgen Center Drive, Thousand Oaks, California (Address of principal executive offices) **91320-1799** (Zip Code)

The Retirement and Savings Plan for Amgen Manufacturing, Limited

Audited Financial Statements and Supplemental Schedule

Years Ended December 31, 2018 and 2017

Contents

Report of Independent Registered Public Accounting Firm	1
Audited Financial Statements:	
Statements of Net Assets Available for Benefits at December 31, 2018 and 2017	<u>2</u>
Statements of Changes in Net Assets Available for Benefits for the years ended December 31, 2018 and 2017	<u>3</u>
Notes to Financial Statements	<u>4</u>
Supplemental Schedule:	
Schedule of Assets (Held at End of Year)	<u>10</u>
Index to Exhibit	22

Signatures

Report of Independent Registered Public Accounting Firm

To the Plan Participants and the Plan Administrator of The Retirement and Savings Plan for Amgen Manufacturing, Limited

Opinion on the Financial Statements

We have audited the accompanying statements of net assets available for benefits of The Retirement and Savings Plan for Amgen Manufacturing, Limited (the Plan) as of December 31, 2018 and 2017, and the related statements of changes in net assets available for benefits for the years then ended, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the net assets available for benefits of the Plan at December 31, 2018 and 2017, and the changes in its net assets available for benefits for the years then ended, in conformity with U.S. generally accepted accounting principles.

Basis for Opinion

These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on the Plan's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Plan 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. The Plan is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control over financial reporting. Accordingly, we express no such opinion.

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.

Supplemental Schedule

The accompanying supplemental schedule of assets (held at end of year) as of December 31, 2018, has been subjected to audit procedures performed in conjunction with the audit of the Plan's financial statements. The information in the supplemental schedule is the responsibility of the Plan's management. Our audit procedures included determining whether the information reconciles to the financial statements or the underlying accounting and other records, as applicable, and performing procedures to test the completeness and accuracy of the information presented in the supplemental schedule. In forming our opinion on the information, we evaluated whether such information, including its form and content, is presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. In our opinion, the information is fairly stated, in all material respects, in relation to the financial statements as a whole.

/s/ ERNST & YOUNG LLP

We have served as the Plan's auditor since 1992.

Los Angeles, California June 17, 2019

The Retirement and Savings Plan for Amgen Manufacturing, Limited Statements of Net Assets Available for Benefits

		December 31,		
		2018		2017
Assets	_			
Investments at fair value	\$	407,898,859	\$	441,446,107
Notes receivable from participants		14,040,310		15,675,786
Other – principally due from broker		470,827		1,530,307
Total assets	_	422,409,996		458,652,200
Liabilities				
Other – principally due to broker		618,395		278,567
Total liabilities		618,395		278,567
Net assets available for benefits	\$	421,791,601	\$	458,373,633

See accompanying notes.

The Retirement and Savings Plan for Amgen Manufacturing, Limited Statements of Changes in Net Assets Available for Benefits

	Years Ended December 31,		
	2018	2017	
Additions to (deductions from) net assets:			
Employer contributions	\$ 14,104,328	\$ 14,909,331	
Participant contributions	13,908,012	13,505,368	
Rollover contributions	613,151	887,746	
Interest and dividend income	4,464,868	4,261,615	
Net realized/unrealized (losses) gains	(11,212,771)	60,953,540	
Interest income on notes receivable from participants	661,076	671,549	
Benefits paid	(58,529,331)	(9,297,793)	
Investment and administrative fees	(591,365)	(579,859)	
Net (decrease) increase	(36,582,032)	85,311,497	
Net assets available for benefits at beginning of year	458,373,633	373,062,136	
Net assets available for benefits at end of year	\$ 421,791,601	\$ 458,373,633	

See accompanying notes.

1. Description of the Plan

The following description of The Retirement and Savings Plan for Amgen Manufacturing, Limited (the Plan) provides only general information. Participants should refer to the Plan document for a more complete description of the Plan's provisions.

General

The Plan was established effective May 1, 1992, and was amended and restated effective January 1, 2017, and subsequently amended, with the most recent amendment adopted on November 1, 2018. The Plan is a defined contribution plan covering substantially all Puerto Rico resident employees of Amgen Manufacturing, Limited (the Company), a wholly owned subsidiary of Amgen Inc. (Amgen). The Plan is intended to qualify under Section 1081.01 of the Puerto Rico Internal Revenue Code of 2011, as amended (the PR Code) (see Note 4, *Income Tax Status*) and section 407(d)(3)(A) of the Employee Retirement Income Security Act of 1974 (ERISA).

Contributions

Subject to certain limitations (as defined in the Plan), participants may elect to contribute up to 30% of their eligible compensation in pre-tax contributions and after-tax contributions or a combination of these types of contributions. A participant's pre-tax contributions are subject to PR Code and Plan limitations and could not exceed \$15,000 in 2018 and 2017. Participants may elect to contribute after-tax contributions beginning January 1 of the year following the year the participant was hired. Participant after-tax contributions are subject to PR Code and Plan limitations and could not exceed \$1,500 in 2018 and 2017. Unless an employee has voluntarily enrolled in the Plan or has declined to participate in the Plan within the first 30 days of employment, all newly eligible participants are automatically enrolled in the Plan, and contributions equal to 5% of their eligible compensation are withheld and contributed to the Plan as pre-tax contributions; such contributions are automatically increased by 1% per year until their contributions reach 10% of their eligible compensation. Participants may elect to adjust, cease or resume their contributions at any time.

Participants who are at least age 50 by the close of the Plan year may also elect to make certain additional pre-tax contributions, referred to as catch-up contributions, that are subject to PR Code and Plan limitations and could not exceed \$1,500 in 2018 and 2017. Participants may also contribute pre-tax and after-tax amounts representing distributions from certain other retirement plans qualified in Puerto Rico, referred to as rollover contributions (as defined in the Plan).

Each pay period, the Company makes a non-elective contribution for all eligible participants, whether or not they have elected to make contributions to the Plan, equal to 4% of each participant's eligible compensation up to a maximum of \$11,000 in 2018 and \$10,800 in 2017 (Core Contributions). In addition, the Company makes a contribution equal to amounts contributed by the participant as pre-tax contributions, including catch-up contributions, of up to 5% of eligible compensation (Matching Contributions). Matching Contributions could not exceed \$13,750 in 2018 and \$13,500 in 2017.

Participants select the investments in which their contributions, including their Core Contributions and Matching Contributions (collectively, Company Contributions), are to be invested, electing among various alternatives, including Amgen common stock (Amgen stock). Participants may direct a maximum of 20% of contributions to be invested in Amgen stock. In addition, participants may transfer amounts among the investment options at any time, subject to certain limitations. Notwithstanding the foregoing, if 20% or more of the value of a participant's Plan account is invested in Amgen stock, the Plan document provides that no transfers from other investment options can be made to invest in Amgen stock.

The accounts of participants who had never made an investment election are allocated to investments under a qualified default investment alternative, which is intended to be compliant with ERISA regulations. At any time, participants may elect to alter the investments in their accounts made under a qualified default investment alternative.

Vesting

Participants are immediately vested with respect to their contributions, Company Contributions, and earnings and losses (hereafter referred to as earnings) thereon.

Participant Accounts

Each participant's account is credited with: (a) the participant's contributions; (b) an allocation of Company Contributions; and (c) earnings. The benefit to which a participant is entitled is the benefit that can be provided from the participant's account.

Plan Investments

Participants can invest in any of 16 different asset classes as well as Amgen stock or may actively manage their account under a self-directed brokerage arrangement in which a wider array of investment options are available. The value of an investment in an asset class is determined by its underlying investment vehicles, which may include one or more of the following: mutual funds, collective trust funds and portfolios, which are separately managed exclusively for the benefit of Plan participants and their beneficiaries (separately managed portfolios). The separately managed portfolios are composed primarily of investments in publicly traded common and preferred stocks. The asset classes are designed to provide participants with choices among a variety of investment objectives.

Payments of Benefits

Subject to Plan limitations, upon termination of employment, including termination due to disability (as defined in the Plan) or retirement, a participant may elect to receive a full or partial distribution of his or her account balance in: (a) a single payment in cash; (b) a single distribution in full shares of Amgen stock (with any fractional shares paid in cash); (c) a single distribution paid in a combination of cash and full shares of Amgen stock; or (d) a rollover distribution to an eligible retirement plan.

Participants may also elect to maintain their account balance in the Plan subsequent to termination of employment, provided that their account balance is greater than \$1,000.

If a participant dies before receiving the value of his or her account balance, the participant's beneficiary may elect to receive the distribution of remaining funds from among the alternatives described above, subject to certain Plan limitations.

Certain restrictions apply to withdrawals from the Plan while a participant continues to be employed by the Company.

Notes Receivable from Participants

Subject to certain restrictions, a participant can have up to two loans outstanding at any one time from his or her Plan account with a combined maximum loan amount that may not exceed the lesser of: (a) 50% of the participant's account balance or (b) \$50,000 less certain adjustments, as applicable (as defined in the Plan). A participant's loan is secured by his or her Plan account balance. Loans made prior to January 1, 2006, bear interest at fixed rates based on the average borrowing rates of certain major banks. Loans made on or after January 1, 2006, bear interest at fixed rates which, until changed by the Company, are based on the prime rate plus one percentage point as published in The Wall Street Journal, determined as of the last day of the calendar quarter preceding origination or such other rate as may be required by law. Loans are generally payable in installments over periods ranging from one to five years, unless the loan is used to acquire a principal residence for which the term of the loan may be up to 20 years. Principal and interest payments are allocated to the participant's account.

Plan Termination

Although it has not expressed any intent to do so, the Company has the right under the Plan to terminate the Plan subject to the provisions of ERISA. Upon termination, participants would receive distributions of their account balances.

Trustee

Banco Popular de Puerto Rico is the Plan's trustee.

2. Summary of Significant Accounting Policies

Basis of Accounting

The accompanying financial statements are prepared on the accrual basis of accounting.

Fair Value Measurement

The investments of the Plan are reported at fair value. Fair value is generally defined as the price that would be received to sell an asset or paid to transfer a liability (the exit price) in an orderly transaction between market participants at the measurement date (see Note 3, *Fair Value Measurements*).

Investment Income and Losses

Dividend income is recognized on the ex-dividend date, and interest income is recorded on an accrual basis. Unrealized gains and losses on investments are measured by the change in the difference between the fair value and cost of the securities held at the beginning of the year (or date purchased if acquired during the Plan year) and the end of the year. Realized gains and losses from security transactions are recorded based on the weighted-average cost of securities sold.

Notes Receivable from Participants

Notes receivable from participants are carried at their unpaid balance plus accrued but unpaid interest, as applicable.

Due from/to Brokers

Purchases and sales of investments are recorded on a trade-date basis. Amounts due from and due to brokers arise from unsettled sale and purchase transactions.

Use of Estimates

The preparation of 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 financial statements and accompanying notes. Actual results could differ from those estimates.

Recently issued accounting pronouncement

In July 2018, the Financial Accounting Standards Board issued a new accounting standard that amends the fair value hierarchy disclosure to indicate that certain types of investments should not always be considered to be eligible to use the net asset value per unit as a practical expedient. Furthermore, this standard clarifies that an evaluation should be made of whether a readily determinable fair value exists for such investments or whether the investments qualify for measurement at the practical expedient. The Company is evaluating the new standard and currently anticipates that it will result in discontinuing the use of the practical expedient for determining the fair values of the Plan's investments in collective trust funds. Accordingly, the aggregate fair value of such investments would be moved from its current location as reconciling item of the fair value hierarchy table into this table with an assigned fair value measurement level. The new standard is effective for years beginning on January 1, 2019, and will be applied prospectively.

3. Fair Value Measurements

The Plan uses various valuation approaches in determining the fair value of investments 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 the investment based on market data obtained from independent sources. Unobservable inputs are inputs that reflect assumptions about the inputs that market participants would use in pricing the investment 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 investments that the Plan 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 investments. 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 following fair value hierarchy tables present information about each major class/category of the Plan's investments measured at fair value:

	Fair value measurements at December 31, 2018, using				ng			
	(Quoted prices in active markets for identical assets (Level 1)		Significant other observable inputs (Level 2)	1	Significant unobservable inputs (Level 3)		Total
Amgen stock	\$	83,047,933	\$	_	\$	_	\$	83,047,933
Cash and cash equivalents		_				_		_
Common and preferred stocks		68,895,253		_		_		68,895,253
Mutual funds		36,118,321		_		_		36,118,321
Self-directed brokerage accounts		2,145,935		_		_		2,145,935
Other		722		_		_		722
	\$	190,208,164	\$	_	\$	_	\$	190,208,164
Collective trust funds measured at net asset value								217,690,695
Total investments measured at fair value							\$	407,898,859

Fair value measurements at 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
Amgen stock	\$ 82,461,642	\$ _	\$ _	\$ 82,461,642
Cash and cash equivalents	320	_	_	320
Common and preferred stocks	81,566,175	79,015	_	81,645,190
Mutual funds	39,694,134	_	_	39,694,134
Self-directed brokerage accounts	2,416,707	_	_	2,416,707
Other	6,560	_	_	6,560
	\$ 206,145,538	\$ 79,015	\$ _	\$ 206,224,553
Collective trust funds measured at net asset value	 	 	 	235,221,554
Total investments measured at fair value				\$ 441,446,107

The fair values of common stocks (including Amgen stock), preferred stocks and mutual funds are valued using quoted market prices in active markets with no valuation adjustment.

Collective trust funds represent interests in pooled investment vehicles designed typically for collective investment of employee benefit trusts. The fair values of these investments are determined by reference to the net asset value per unit provided by the fund managers as a practical expedient. The unit values are based on the fair values of the trusts' underlying assets, which are principally equity and fixed income securities and short-term investments. The only redemption restriction with respect to these investments is on the Wells Fargo Stable Value Fund W (fair value of \$29,528,317 as of December 31, 2018), which requires a one-year notice to be given in the event of complete liquidation.

4. Income Tax Status

The Plan received an opinion letter from the Puerto Rico Treasury Department (PRTD) dated February 26, 2018, with an effective date of January 1, 2017, stating that the Plan meets the requirements of Section 1081.01 of the PR Code and the regulations thereunder, and, therefore the related trust forming part of the Plan is exempt from taxation. Subsequently, two amendments were made to the Plan, and the Plan received a letter from the PRTD dated October 30, 2018, stating the PRTD has no objection to these amendments. Subsequent to this letter, the Plan was amended again. Once qualified, the Plan is required to operate in conformity with the PR Code to maintain its qualification.

For taxable years 2018 and 2017, the Company believes the Plan satisfied, and operated in compliance with, the applicable requirements of the PR Code and therefore believes that the Plan, as amended, is qualified and the related trust is tax exempt. The Company has indicated that it currently intends to continue to take the necessary steps to maintain the Plan's compliance with the applicable requirements of the PR Code.

5. Services Provided by the Company

During 2018 and 2017, the Company paid certain trustee fees and other administrative costs on behalf of the Plan.

6. Reconciliation of Financial Statements to Form 5500

The reconciliation of net assets available for benefits per the financial statements to the Form 5500 consisted of the following:

		Decem	ber 3	1,
	_	2018		2017
Net assets available for benefits per the financial statements	\$	421,791,601	\$	458,373,633
Deemed loans		(481,033)		(421,752)
Net assets per the Form 5500	\$	421,310,568	\$	457,951,881

The following is a reconciliation of distributions per the financial statements to the Form 5500:

	Year Ended December 31, 2018
Benefits paid	\$ (58,529,331)
Investment and administrative fees	(591,365)
Total distributions per the financial statements	(59,120,696)
Deemed loan balance at December 31, 2017	421,752
Deemed loan balance at December 31, 2018	(481,033)
Total distributions per the Form 5500	\$ (59,179,977)

Supplemental Schedule The Retirement and Savings Plan for Amgen Manufacturing, Limited EIN: 98-0210484 Plan: #001 As of December 31, 2018

Schedule H, line 4i – Schedule of Assets (Held at End of Year)

Identity of Issue	Description of Investment	Current Va	llue
Amgen Stock*	Employer Securities 426,609 shares	\$ 83,047,933	
		\$	83,047,933
Capital Preservation Asset Class:			
Wells Fargo Stable Value Fund*	Collective Trust Fund 529,175 units	29,528,317	
NT Collective Short Term Investment Fund*	Collective Trust Fund 1,234,529 units	1,234,529	
Total Capital Preservation Asset Class			30,762,846
Emerging Markets Equity Asset Class:			
Blackrock FTSE RAFI Emerging Index Non Lendable Fund			
F*	Collective Trust Fund 285,331 units	3,451,934	
J.P. Morgan Emerging Markets Equity Focus Fund*	Collective Trust Fund 160,083 units	3,382,555	
NT Collective Emerging Markets Fund / Non Lending*	Collective Trust Fund 3,462 units	 570,485	
Total Emerging Markets Equity Asset Class			7,404,974
Fixed Income Asset Class:			
JPMorgan Core Bond Fund*	Collective Trust Fund 618,944 units	11,605,195	
Metropolitan West Total Return Bond Fund	Mutual Fund 1,182,379 units	 11,563,670	
Total Fixed Income Asset Class			23,168,865
Fixed Income Index Asset Class:			
NT Collective Aggregate Bond Index Fund / Non Lending*	Collective Trust Fund 59,424 units	 8,347,893	
Total Fixed Income Index Asset Class			8,347,893
High Yield Asset Class:			
Mackay Shields High Yield Bond CIT (Fund Code-2196)*	Collective Trust Fund 432,064 units	4,471,862	
Blackrock Funds V High Yield Bond Portfolio Class K	Mutual Fund 612,268 units	4,371,595	
NT Collective Aggregate Bond Index Fund / Non Lending*	Collective Trust Fund 15,505 units	2,178,192	
Total High Yield Asset Class		 	11,021,649
Inflation Protection Asset Class:			
NT Collective Treasury Inflation/Protected Securities Index			
Fund / Non Lending*	Collective Trust Fund 41,380 units	5,781,565	
Total Inflation Protection Asset Class			5,781,565
International Growth Asset Class:			
Artisan International Fund*	Collective Trust Fund 165,504 units	3,518,624	

Schedule H, line 4i – Schedule of Assets (Held at End of Year) (continued)

MFS Institutional International Equity Fland Menual Fand 154,902 units 3,470,053	Identity of Issue	Description of Investment	Current V	alue
Total International Index Asset Class NT Collective All Country World Index Ex/US Fund / Non Learning* Total International Index Asset Class NT Collective All Country World Index Ex/US Fund / Non Learning* Collective Trust Fund 156,510 units 21,445,039 International Value Asset Class Altrinsic International Fund of Manual Fund 106,380 units Altrinsic International Fund Manual Fund 106,380 units Altrinsic International Fund Manual Fund 106,380 units Altrinsic International Fund Manual Fund 106,380 units Altrinsic International Value Asset Class Altrinsic International Value Asset Class Altrinsic International Value Asset Class NT Collective Russell 1000 Growth Index Fund / Non Learning* Learning Cap Growth Asset Class NT Collective Russell 1000 Growth Index Fund / Non Learning* Learning Cap Growth Asset Class NT Collective Russell 1000 Growth Index Fund / Non Learning* Learning Cap Growth Asset Class NT Collective Russell 1000 Growth Index Fund / Non Learning* Learning Cap Growth Asset Class NT Collective Russell 1000 Growth Index Fund / Non Learning* Learning Cap Growth Asset Class NT Collective Russell 1000 Growth Index Fund / Non Learning* Learning Cap Growth Asset Class NT Collective Russell 1000 Growth Index Fund / Non Learning* Learning Cap Growth Asset Class NT Collective Russell 1000 Growth Index Fund / Non Learning* Annual Preferred Stock 1,182 shares 1,775,329 Visa Inc. Class A Common and Preferred Stock 1,182 shares 1,182,006 All Proposition Class A Common and Preferred Stock 1,182 shares 1,182,006 All Proposition Class A Common and Preferred Stock 1,182 shares 1,182,006 All Proposition Class A Common and Preferred Stock 5,315 shares 1,182,006 All Proposition Class A Common and Preferred Stock 5,315 shares 1,182,006 All Proposition Class A Common and Preferred Stock 5,325 shares 1,182,006 All Proposition Class A Common and Preferred Stock 5,435 shares 1,182,006 All Proposition Class A Common and Preferred Stock 5,435 shares 1,182,006 All Propositi	MFS Institutional International Equity Fund	Mutual Fund 154,982 units	3,470,053	
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The Estee Lauder Companies Inc. Common and Preferred Stock 4,305 shares 560,081 Adobe Systems Inc. Common and Preferred Stock 2,470 shares 558,813 Booking Holdings Inc. Common and Preferred Stock 310 shares 533,950 Ecolab Inc. Common and Preferred Stock 3,489 shares 514,104 UnitedHealth Group Inc. Common and Preferred Stock 2,029 shares 505,464 Walt Disney Company Common and Preferred Stock 4,165 shares 456,692 Autodesk Inc. Common and Preferred Stock 3,451 shares 443,833 Equinix Inc. Common and Preferred Stock 1,216 shares 428,713 Becton Dickinson & Company Common and Preferred Stock 1,823 shares 410,758 Edwards Lifesciences Corporation Common and Preferred Stock 2,645 shares 405,135 Illumina, Inc. Common and Preferred Stock 1,350 shares	FleetCor Technologies, Inc.	Common and Preferred Stock 3,076 shares	571,275	
Adobe Systems Inc. Common and Preferred Stock 2,470 shares 558,813 Booking Holdings Inc. Common and Preferred Stock 310 shares 533,950 Ecolab Inc. Common and Preferred Stock 3,489 shares 514,104 UnitedHealth Group Inc. Common and Preferred Stock 2,029 shares 505,464 Walt Disney Company Common and Preferred Stock 4,165 shares 456,692 Autodesk Inc. Common and Preferred Stock 3,451 shares 443,833 Equinix Inc. Common and Preferred Stock 1,216 shares 428,713 Becton Dickinson & Company Common and Preferred Stock 1,823 shares 410,758 Edwards Lifesciences Corporation Common and Preferred Stock 2,645 shares 405,135 Illumina, Inc. Common and Preferred Stock 1,350 shares	Facebook Inc. Class A	Common and Preferred Stock 4,322 shares	566,571	
Booking Holdings Inc. Common and Preferred Stock 310 shares Ecolab Inc. Common and Preferred Stock 3,489 shares 514,104 UnitedHealth Group Inc. Common and Preferred Stock 2,029 shares 505,464 Walt Disney Company Common and Preferred Stock 4,165 shares 456,692 Autodesk Inc. Common and Preferred Stock 3,451 shares 443,833 Equinix Inc. Common and Preferred Stock 1,216 shares 428,713 Becton Dickinson & Company Common and Preferred Stock 1,823 shares 410,758 Edwards Lifesciences Corporation Common and Preferred Stock 2,645 shares 405,135 Illumina, Inc. Common and Preferred Stock 1,350 shares	The Estee Lauder Companies Inc.	Common and Preferred Stock 4,305 shares	560,081	
Ecolab Inc. Common and Preferred Stock 3,489 shares UnitedHealth Group Inc. Common and Preferred Stock 2,029 shares 505,464 Walt Disney Company Common and Preferred Stock 4,165 shares Autodesk Inc. Common and Preferred Stock 3,451 shares 443,833 Equinix Inc. Common and Preferred Stock 1,216 shares 428,713 Becton Dickinson & Company Common and Preferred Stock 1,823 shares 410,758 Edwards Lifesciences Corporation Common and Preferred Stock 2,645 shares 405,135 Illumina, Inc. Common and Preferred Stock 1,350 shares	Adobe Systems Inc.	Common and Preferred Stock 2,470 shares	558,813	
UnitedHealth Group Inc. Common and Preferred Stock 2,029 shares 505,464 Walt Disney Company Common and Preferred Stock 4,165 shares 456,692 Autodesk Inc. Common and Preferred Stock 3,451 shares 443,833 Equinix Inc. Common and Preferred Stock 1,216 shares 428,713 Becton Dickinson & Company Common and Preferred Stock 1,823 shares 410,758 Edwards Lifesciences Corporation Common and Preferred Stock 2,645 shares 405,135 Illumina, Inc. Common and Preferred Stock 1,350 shares	Booking Holdings Inc.	Common and Preferred Stock 310 shares	533,950	
Walt Disney Company Common and Preferred Stock 4,165 shares 456,692 Autodesk Inc. Common and Preferred Stock 3,451 shares 443,833 Equinix Inc. Common and Preferred Stock 1,216 shares 428,713 Becton Dickinson & Company Common and Preferred Stock 1,823 shares 410,758 Edwards Lifesciences Corporation Common and Preferred Stock 2,645 shares 405,135 Illumina, Inc. Common and Preferred Stock 1,350 shares 404,906	Ecolab Inc.	Common and Preferred Stock 3,489 shares	514,104	
Autodesk Inc. Common and Preferred Stock 3,451 shares 443,833 Equinix Inc. Common and Preferred Stock 1,216 shares 428,713 Becton Dickinson & Company Common and Preferred Stock 1,823 shares 410,758 Edwards Lifesciences Corporation Common and Preferred Stock 2,645 shares 405,135 Illumina, Inc. Common and Preferred Stock 1,350 shares 404,906	UnitedHealth Group Inc.	Common and Preferred Stock 2,029 shares	505,464	
Equinix Inc.Common and Preferred Stock 1,216 shares428,713Becton Dickinson & CompanyCommon and Preferred Stock 1,823 shares410,758Edwards Lifesciences CorporationCommon and Preferred Stock 2,645 shares405,135Illumina, Inc.Common and Preferred Stock 1,350 shares404,906	Walt Disney Company	Common and Preferred Stock 4,165 shares	456,692	
Becton Dickinson & CompanyCommon and Preferred Stock 1,823 shares410,758Edwards Lifesciences CorporationCommon and Preferred Stock 2,645 shares405,135Illumina, Inc.Common and Preferred Stock 1,350 shares404,906	Autodesk Inc.	Common and Preferred Stock 3,451 shares	443,833	
Edwards Lifesciences Corporation Common and Preferred Stock 2,645 shares 405,135 Illumina, Inc. Common and Preferred Stock 1,350 shares 404,906	Equinix Inc.	Common and Preferred Stock 1,216 shares	428,713	
Illumina, Inc. Common and Preferred Stock 1,350 shares 404,906	Becton Dickinson & Company	Common and Preferred Stock 1,823 shares	410,758	
	Edwards Lifesciences Corporation	Common and Preferred Stock 2,645 shares	405,135	
Novo Nordisk A/S Common and Preferred Stock 8,669 shares 399,381	Illumina, Inc.	Common and Preferred Stock 1,350 shares	404,906	
	Novo Nordisk A/S	Common and Preferred Stock 8,669 shares	399,381	

Identity of Issue	Description of Investment	Current Value
Linde PLC	Common and Preferred Stock 2,353 shares	367,162
Automatic Data Processing, Inc.	Common and Preferred Stock 2,796 shares	366,612
Intuit	Common and Preferred Stock 1,811 shares	356,495
Lowes Companies, Inc.	Common and Preferred Stock 3,839 shares	354,570
Monster Beverage Corporation	Common and Preferred Stock 7,005 shares	344,786
Apple Inc.	Common and Preferred Stock 2,170 shares	342,296
TJX Companies, Inc.	Common and Preferred Stock 7,622 shares	341,008
Ulta Salon, Cosmetics & Fragrance, Inc.	Common and Preferred Stock 1,385 shares	339,103
CoStar Group Inc.	Common and Preferred Stock 1,005 shares	339,027
Mondelez International, Inc.	Common and Preferred Stock 8,384 shares	335,612
Palo Alto Networks, Inc.	Common and Preferred Stock 1,580 shares	297,593
Intuitive Surgical, Inc.	Common and Preferred Stock 601 shares	287,831
Mastercard Inc. Class A	Common and Preferred Stock 1,402 shares	264,487
Splunk Inc.	Common and Preferred Stock 2,420 shares	253,737
Caterpillar Inc.	Common and Preferred Stock 1,882 shares	239,146
Alliance Data Systems Corporation	Common and Preferred Stock 1,593 shares	239,077
Align Technology, Inc.	Common and Preferred Stock 1,130 shares	236,656
Sarepta Therapeutics Inc.	Common and Preferred Stock 2,095 shares	228,627
Thermo Fisher Corporation	Common and Preferred Stock 1,017 shares	227,594
Cisco Systems, Inc.	Common and Preferred Stock 5,220 shares	226,183
Zebra Technologies Corporation	Common and Preferred Stock 1,410 shares	224,514
Abiomed Inc.	Common and Preferred Stock 675 shares	219,402
Match Group Inc.	Common and Preferred Stock 5,025 shares	214,919
Workday Inc. Class A	Common and Preferred Stock 1,330 shares	212,374
Coca Cola Company	Common and Preferred Stock 4,400 shares	208,340
Deere & Company	Common and Preferred Stock 1,361 shares	203,020
Boston Scientific Corporation	Common and Preferred Stock 5,650 shares	199,671
RingCentral, Inc. Class A	Common and Preferred Stock 2,360 shares	194,558
Biomarin Pharmaceutical Inc.	Common and Preferred Stock 2,245 shares	191,162
Twitter Inc.	Common and Preferred Stock 6,390 shares	183,649
Vertex Pharmaceuticals Inc.	Common and Preferred Stock 1,100 shares	182,281
Activision Blizzard Inc.	Common and Preferred Stock 3,795 shares	176,733
Eli Lilly and Company	Common and Preferred Stock 1,520 shares	175,894
CF Industries Holdings Inc.	Common and Preferred Stock 4,000 shares	174,040
Alexion Pharmaceuticals, Inc.	Common and Preferred Stock 1,770 shares	172,327
Xilinx Inc.	Common and Preferred Stock 1,970 shares	167,785
Target Corporation	Common and Preferred Stock 2,360 shares	155,972
Loxo Oncology Inc.	Common and Preferred Stock 1,102 shares	154,357
SBV Financial Group	Common and Preferred Stock 810 shares	153,835
Dexcom Inc.	Common and Preferred Stock 1,260 shares	150,948
Floor & Decor Holdings Inc.	Common and Preferred Stock 5,800 shares	150,220
Worldpay Inc. Class A	Common and Preferred Stock 1,940 shares	148,274
CSX Corporation	Common and Preferred Stock 2,340 shares	145,384
Grubhub Inc.	Common and Preferred Stock 1,890 shares	145,171
Qualcomm Inc.	Common and Preferred Stock 2,430 shares	138,291
Five Below, Inc.	Common and Preferred Stock 1,340 shares	137,109
Chipotle Mexican Grill, Inc.	Common and Preferred Stock 310 shares	133,855

Identity of Issue	Description of Investment	Current Value
Capital One Financial Corporation	Common and Preferred Stock 1,710 shares	129,259
Intel Corporation	Common and Preferred Stock 2,740 shares	128,588
Atlassian Corporation PLC Class A	Common and Preferred Stock 1,375 shares	122,348
Procter & Gamble NPV	Common and Preferred Stock 1,300 shares	119,496
Lululemon Athletica Inc.	Common and Preferred Stock 910 shares	110,665
Jacobs Engineering Group Inc.	Common and Preferred Stock 1,740 shares	101,720
WellCare Health Plans, Inc.	Common and Preferred Stock 400 shares	94,436
Diamondback Energy Inc.	Common and Preferred Stock 972 shares	90,104
Pioneer National Resources Company	Common and Preferred Stock 610 shares	80,227
Live Nation Entertainment Inc.	Common and Preferred Stock 1,220 shares	60,085
Tiffany & Company	Common and Preferred Stock 580 shares	46,696
Total Large Cap Growth Asset Class:		34,025,421
Large Cap Index Asset Class:		
NT Collective S&P 500 Index Fund – Non Lending*	Collective Trust Fund 9,849 units	86,206,754
NT Collective Short Term Investment Fund*	Collective Trust Fund 2,185 units	2,185
Total Large Cap Index Asset Class	Concente Trust Pane 2,105 and	86,208,939
Total Large Cap fildex Asset Class		00,200,333
Lange Con William Annu Claus		
Large Cap Value Asset Class:	C. II. of The J. I. A. COA.	F2F 000
NT Collective Russell 1000 Value Index Fund / Non Lending*	Collective Trust Fund 1,621 units	537,066
NT Collective Short Term Investment Fund*	Collective Trust Fund 442,407 units	442,407
Alphabet Inc. Class C	Common and Preferred Stock 407 shares	421,493
Microsoft Corporation	Common and Preferred Stock 3,937 shares	399,881
Qorvo, Inc.	Common and Preferred Stock 5,863 shares	356,060
Hilton Worldwide Holdings Inc.	Common and Preferred Stock 4,874 shares	349,953
Skyworks Solutions Inc	Common and Preferred Stock 5,170 shares	346,493
National Oilwell Varco, Inc.	Common and Preferred Stock 12,892 shares	331,324
Mastercard Inc. Class A	Common and Preferred Stock 1,711 shares	322,780
KKR & Company Inc. Class A	Common and Preferred Stock 14,592 shares	286,441
Swiss Re AG	Common and Preferred Stock 2,980 shares	272,258
Comcast Corporation Class A	Common and Preferred Stock 7,700 shares	262,185
CVS Health Corporation	Common and Preferred Stock 3,985 shares	261,097
McKesson Corporation	Common and Preferred Stock 2,154 shares	237,952
European Aeronautic Defense and Space Company	Common and Preferred Stock 2,467 shares	237,942
United Parcel Service Inc. Class B	Common and Preferred Stock 2,434 shares	237,388
Visa Inc. Class A	Common and Preferred Stock 1,795 shares	236,832
Parker/Hannifin Corporation	Common and Preferred Stock 1,574 shares	234,746
Amazon Inc.	Common and Preferred Stock 155 shares	232,805
Teradyne, Inc.	Common and Preferred Stock 7,415 shares	232,683
Wells Fargo & Company*	Common and Preferred Stock 4,750 shares	218,880
Charter Communications, Inc. Class A	Common and Preferred Stock 692 shares	197,199
S&P Global Inc.	Common and Preferred Stock 1,131 shares	192,202
The Charles Schwab Corporation	Common and Preferred Stock 4,600 shares	191,038
Facebook Inc. Class A	Common and Preferred Stock 1,387 shares	181,822
State Street Corporation	Common and Preferred Stock 2,769 shares	174,641

Identity of Issue	Description of Investment	Current Value
Sanofi/Aventis	Common and Preferred Stock 3,900 shares	169,299
Oracle Corporation	Common and Preferred Stock 3,726 shares	168,229
Bank of America Corporation*	Common and Preferred Stock 6,700 shares	165,088
AmerisourceBergen Corp.	Common and Preferred Stock 2,203 shares	163,903
Novartis AG	Common and Preferred Stock 1,900 shares	163,039
Capital One Financial Corporation	Common and Preferred Stock 2,050 shares	154,960
Cigna Corporation	Common and Preferred Stock 811 shares	154,052
American Express Company	Common and Preferred Stock 1,600 shares	152,512
J.P. Morgan Chase & Company*	Common and Preferred Stock 1,550 shares	151,311
Bank of New York Mellon Corporation	Common and Preferred Stock 3,100 shares	145,917
Axis Capital Holdings Limited	Common and Preferred Stock 2,777 shares	143,404
FedEx Corporation	Common and Preferred Stock 850 shares	137,131
Twenty-First Century Fox, Inc. Class A	Common and Preferred Stock 2,750 shares	132,330
AstraZeneca PLC	Common and Preferred Stock 3,400 shares	129,132
Roche Holdings Ltd.	Common and Preferred Stock 4,100 shares	127,428
Bristol/Myers Squibb Company	Common and Preferred Stock 2,400 shares	124,752
Johnson Controls International PLC	Common and Preferred Stock 4,043 shares	119,875
GlaxoSmithKline PLC	Common and Preferred Stock 3,100 shares	118,451
MetLife, Inc.*	Common and Preferred Stock 2,850 shares	117,021
Anadarko Petroleum Corporation	Common and Preferred Stock 2,600 shares	113,984
Eli Lilly and Company	Common and Preferred Stock 950 shares	109,934
Everest Re Group Ltd	Common and Preferred Stock 490 shares	106,702
Hewlett Packard Enterprise Company	Common and Preferred Stock 8,000 shares	105,680
HP Inc.	Common and Preferred Stock 5,000 shares	102,300
The Goldman Sachs Group Inc.	Common and Preferred Stock 600 shares	100,230
Cisco Systems, Inc.	Common and Preferred Stock 2,200 shares	95,326
Booking Holdings Inc.	Common and Preferred Stock 55 shares	94,733
UnitedHealth Group Inc.	Common and Preferred Stock 375 shares	93,420
Occidental Petroleum Corporation	Common and Preferred Stock 1,500 shares	92,070
United Technologies Corporation	Common and Preferred Stock 800 shares	85,184
TE Connectivity Limited	Common and Preferred Stock 1,100 shares	83,193
Baker Hughes	Common and Preferred Stock 3,600 shares	77,400
Microchip Technology Inc.	Common and Preferred Stock 1,000 shares	71,920
Apache Corporation	Common and Preferred Stock 2,700 shares	70,875
Gilead Sciences Inc.	Common and Preferred Stock 1,000 shares	62,550
Juniper Networks, Inc.	Common and Preferred Stock 2,200 shares	59,202
Qurate Retail Inc.	Common and Preferred Stock 3,000 shares	58,560
Celanese Corporation	Common and Preferred Stock 650 shares	58,481
Schlumberger Limited	Common and Preferred Stock 1,500 shares	54,120
BB&T Corporation	Common and Preferred Stock 1,150 shares	49,818
Union Pacific Corporation	Common and Preferred Stock 325 shares	44,925
Micro Focus International PLC	Common and Preferred Stock 2,388 shares	41,097
Halliburton Company	Common and Preferred Stock 1,500 shares	39,870
Twenty-First Century Fox, Inc. Class B	Common and Preferred Stock 800 shares	38,224
Danaher Corporation	Common and Preferred Stock 350 shares	36,092
AT&T Inc.	Common and Preferred Stock 1,214 shares	34,648
Sprint Corporation	Common and Preferred Stock 5,724 shares	33,314

Identity of Issue	Description of Investment	Current Value
Zayo Group Holdings Inc.	Common and Preferred Stock 1,400 shares	31,976
Molson Coors Brewing Class B	Common and Preferred Stock 550 shares	30,888
Concho Resources Inc.	Common and Preferred Stock 300 shares	30,837
Dell Technologies Inc. Class C	Common and Preferred Stock 591 shares	28,875
Maxim Integrated Products, Inc.	Common and Preferred Stock 550 shares	27,968
Dish Network Corporation Class A	Common and Preferred Stock 1,100 shares	27,467
Medtronic PLC	Common and Preferred Stock 300 shares	27,288
Aegon N.V.*	Common and Preferred Stock 5,700 shares	26,505
Incyte Corporation	Common and Preferred Stock 400 shares	25,436
Brighthouse Financial Inc.	Common and Preferred Stock 677 shares	20,635
Mattel Inc.	Common and Preferred Stock 2,000 shares	19,980
Harley/Davidson	Common and Preferred Stock 550 shares	18,766
Ball Corporation	Common and Preferred Stock 400 shares	18,392
Alnylam Pharmaceuticals, Inc.	Common and Preferred Stock 250 shares	18,228
Gap Inc.	Common and Preferred Stock 700 shares	18,032
Alphabet Inc. Class A	Common and Preferred Stock 10 shares	10,450
News Corporation Class A	Common and Preferred Stock 700 shares	7,945
Weatherford International Ltd.	Common and Preferred Stock 2,000 shares	1,118
Total Large Cap Value Asset Class		12,538,040
Participant Self-Directed Brokerage Accounts	Various Investments	2,145,935
•		2,145,935
Real Estate Investment Trust (REIT) Asset Class:		
Vanguard Specialized Portfolios REIT Index Fund		
Institutional Class	Mutual Fund 520,464 units	8,514,799
NT Collective Global Real Estate Index Fund - Non Lending*	Collective Trust Fund 4,695 units	899,046
Total REIT Asset Class		9,413,845
Small-Mid Cap Growth Asset Class:		
Wasatch Small Cap Growth Fund	Mutual Fund 130,025 units	4,175,094
NT Collective Russell 2000 Growth Index Fund / Non		
Lending*	Collective Trust Fund 2,793 units	868,963
Green Dot Corporation Stock	Common and Preferred Stock 1,931 shares	153,553
Zebra Technologies Corporation	Common and Preferred Stock 955 shares	152,065
Zendesk, Inc.	Common and Preferred Stock 2,350 shares	137,170
Molina Healthcare Inc.	Common and Preferred Stock 1,158 shares	134,583
Dexcom Inc.	Common and Preferred Stock 1,102 shares	132,020
IAC/InterActiveCorp	Common and Preferred Stock 662 shares	121,172
Five9 Inc.	Common and Preferred Stock 2,665 shares	116,514
RingCentral, Inc. Class A	Common and Preferred Stock 1,413 shares	116,488
NT Collective Short Term Investment Fund*	Collective Trust Fund 113,737 units	113,737
Chegg Inc.	Common and Preferred Stock 3,328 shares	94,582
Etsy Inc.	Common and Preferred Stock 1,901 shares	90,431
Lululemon Athletica Inc.	Common and Preferred Stock 717 shares	87,194
Ulta Salon, Cosmetics & Fragrance, Inc.	Common and Preferred Stock 352 shares	86,184
Wright Medical Group NV	Common and Preferred Stock 3,128 shares	85,144

Coherent Forum Inc. Common and Preferred Stock 2-247 shares 79,310	Identity of Issue	Description of Investment	Current Value
G-III Apparel Group Limited	CoStar Group Inc.	Common and Preferred Stock 246 shares	82,986
Common and Preferred Stock 1,792 shares 76,633 Harmonetics Corporation Common and Preferred Stock 766 shares 76,645 Spirit Aritines, Inc. Common and Preferred Stock 1,209 shares 75,647 Tandem Diabetes Care Inc. Common and Preferred Stock 1,209 shares 75,647 Tandem Diabetes Care Inc. Common and Preferred Stock 1,309 shares 75,647 Tandem Diabetes Care Inc. Common and Preferred Stock 3,309 shares 65,903 Crudubia Inc. Common and Preferred Stock 5,309 shares 65,903 Tokot Corporation Common and Preferred Stock 508 shares 65,903 Inter Parfums, Inc. Common and Preferred Stock 508 shares 66,4061 Inter Parfums, Inc. Common and Preferred Stock 5,445 shares 61,177 Array BioPharma Inc. Common and Preferred Stock 4,445 shares 61,417 Array BioPharma Inc. Common and Preferred Stock 4,445 shares 61,491 Q2 Holdings Inc. Common and Preferred Stock 5,445 shares 61,491 Q2 Holdings Inc. Common and Preferred Stock 4,445 shares 69,490 Dalby I aboratories Inc. Class A Common and Preferred Stock 5,002 shares 59,490 Dalby I aboratories Inc. Class A Common and Preferred Stock 5,003 shares 59,490 PTC Inc. Common and Preferred Stock 5,003 shares 52,973 PTV Below, Inc. Common and Preferred Stock 5,003 shares 52,973 PTV Below, Inc. Common and Preferred Stock 5,003 shares 51,979 PTV Below, Inc. Common and Preferred Stock 5,003 shares 51,979 PTV Below, Inc. Common and Preferred Stock 5,003 shares 48,655 Teradyae, Inc. Common and Preferred Stock 5,003 shares 48,655 Teradyae, Inc. Common and Preferred Stock 5,003 shares 48,655 Teradyae, Inc. Common and Preferred Stock 7,10 shares 44,655 Teradyae, Inc. Common and Preferred Stock 7,10 shares 44,655 Teradyae, Inc. Common and Preferred Stock 7,10 shares 41,652 Tokalis Allor Corporation Common and Preferred Stock 8,003 shares 41,652 Tokalis Allor Corporation Common and Preferred Stock 8	Abiomed Inc.	Common and Preferred Stock 244 shares	79,310
Haemonetics Corporation Common and Preferred Stock 1,233 shares 76,545	G-III Apparel Group Limited	Common and Preferred Stock 2,829 shares	78,901
Keysight Technologies Inc.	Cree Inc.	Common and Preferred Stock 1,792 shares	76,653
Spirit Airlines, Inc.	Haemonetics Corporation	Common and Preferred Stock 766 shares	76,638
Tandem Diabetes Care Inc. Common and Preferred Stock 1,596 shares 74,268	Keysight Technologies Inc.	Common and Preferred Stock 1,233 shares	76,545
Foolent Health Inc. Class A Class A Common and Preferred Stock 858 shares 65.903	Spirit Airlines, Inc.	Common and Preferred Stock 1,309 shares	75,817
Grubhub Inc. Common and Preferred Sock 858 shares 65,903 Irobot Corporation Common and Preferred Sock 765 shares 64,1061 Intere Parturus, Inc. Common and Preferred Sock 933 shares 61,177 Array BioPharma Inc. Common and Preferred Sock 4,245 shares 60,491 Q2 Holdings Inc. Common and Preferred Sock 1,205 shares 59,609 Dolby Laboratories Inc. Class A Common and Preferred Sock 1,205 shares 59,609 Dolby Laboratories Inc. Class A Common and Preferred Sock 304 shares 57,736 SBV Financial Group Common and Preferred Sock 304 shares 57,736 FTC Inc. Common and Preferred Sock 508 shares 51,979 FTC Inc. Common and Preferred Sock 508 shares 51,979 Neurocrine Biosciences, Inc. Common and Preferred Sock 508 shares 51,979 Neurocrine Biosciences, Inc. Common and Preferred Sock 705 shares 48,655 Freadyne, Inc. Common and Preferred Sock 705 shares 48,655 Freadyne, Inc. Common and Preferred Sock 705 shares 48,200 Chart Industries Inc. Common and Preferred Sock 710 shares 46,171 Insult Corporation Common and Preferred Sock 710 shares 44,195 Cids Mobile Inc. Common and Preferred Sock 5,668 shares 44,995 Cids Mobile Inc. Common and Preferred Sock 5,668 shares 44,127 Tvilio Inc. Class A Common and Preferred Sock 485 shares 43,311 Sentech Corporation Common and Preferred Sock 485 shares 41,682 Malison Square Garden Company Class A Common and Preferred Sock 485 shares 41,682 Malison Square Garden Company Class A Common and Preferred Sock 191 shares 40,690 Trans Tinion Common and Preferred Sock 191 shares 39,845 Rapid 7 Inc. Common and Preferred Sock 191 shares 39,845 Rapid 7 Inc. Common and Preferred Sock 191 shares 39,845 Rapid 7 Inc. Common and Preferred Sock 191 shares 39,845 Rapid 7 Inc. Common and Preferred Sock 191 shares 39,845 Rapid 7 Inc. Common and Preferred Sock 191 shares 39,845 Rapid 7 Inc. Common and	Tandem Diabetes Care Inc.	Common and Preferred Stock 1,956 shares	74,269
Inter Parlums, Inc.	Evolent Health Inc. Class A Class A	Common and Preferred Stock 3,690 shares	73,616
Inter Parfums, Inc. Common and Preferred Stock 933 shares 60,491 Array BioPharma Inc. Common and Preferred Stock 4,245 shares 59,099 Dolby Laboratories Inc. Class A Common and Preferred Stock 4,265 shares 59,490 SBV Pinancial Group Common and Preferred Stock 962 shares 59,490 SBV Pinancial Group Common and Preferred Stock 4,304 shares 57,736 Five Below, Inc. Common and Preferred Stock 508 shares 52,973 Five Below, Inc. Common and Preferred Stock 508 shares 51,979 Neurocrine Biosciences, Inc. Common and Preferred Stock 508 shares 50,344 Advance Auto Parts Inc. Common and Preferred Stock 508 shares 48,655 Teradyne, Inc. Common and Preferred Stock 1,536 shares 48,655 Teradyne, Inc. Common and Preferred Stock 1,536 shares 48,200 Chart Industries Inc. Common and Preferred Stock 1,536 shares 48,200 Chart Industries Inc. Common and Preferred Stock 1,536 shares 48,171 Insulet Corporation Common and Preferred Stock 5,668 shares 44,127 Twilio Inc. Class A Common and Preferred Stock 5,668 shares 44,127 Twilio Inc. Class A Common and Preferred Stock 5,668 shares 44,127 Twilio Inc. Class A Common and Preferred Stock 5,668 shares 44,127 Twilio Inc. Class A Common and Preferred Stock 5,668 shares 44,127 Twilio Inc. Class A Common and Preferred Stock 1,553 shares 44,127 Twilio Inc. Class A Common and Preferred Stock 1,615 shares 44,162 Alaiska Air Group Inc. Common and Preferred Stock 1,615 shares 41,622 Madison Square Garden Company Class A Common and Preferred Stock 1,125 shares 40,690 TransUnion Common and Preferred Stock 1,125 shares 39,845 Rapid 7 Inc. Common and Preferred Stock 1,125 shares 39,845 Rapid 7 Inc. Common and Preferred Stock 1,127 shares 39,845 Rapid 7 Inc. Common and Preferred Stock 1,127 shares 39,845 Rapid 7 Inc. Common and Preferred Stock 1,127 shares 39,845 Bio Rada Laboratories, Inc. Class A Common and Preferred Stock 1,127 shares 39,964 Bio Rada Laboratories, Inc. Class A Common and Preferred Stock 1,126 shares 39,964 Bio Rada Laboratories, Inc. Class A Common and Preferred Stock 1,156 shares	Grubhub Inc.	Common and Preferred Stock 858 shares	65,903
Array BioPharma Inc. Q2 Holdings Inc. Common and Preferred Stock 4,245 shares 59,609 Dolly Laboratories Inc. Class A Common and Preferred Stock 962 shares 59,609 SBV Financial Group Common and Preferred Stock 304 shares 57,736 PTC Inc. Common and Preferred Stock 304 shares 52,973 Five Below, Inc. Common and Preferred Stock 308 shares 52,973 Five Below, Inc. Common and Preferred Stock 508 shares 50,344 Advance Auto Parts Inc. Common and Preferred Stock 705 shares 50,344 Advance Auto Parts Inc. Common and Preferred Stock 508 shares 48,655 Teradyne, Inc. Common and Preferred Stock 508 shares 48,655 Teradyne, Inc. Common and Preferred Stock 508 shares 48,655 Teradyne, Inc. Common and Preferred Stock 715 shares 46,171 Insulet Corporation Common and Preferred Stock 566 shares 44,195 Cish Mobile Inc. Common and Preferred Stock 566 shares 44,195 Cish Mobile Inc. Common and Preferred Stock 566 shares 43,311 Semetch Corporation Common and Preferred Stock 48 58 shares 43,311 Semetch Corporation Common and Preferred Stock 868 shares 41,682 Alaska Air Group Inc. Common and Preferred Stock 185 shares 41,682 Alaska Air Group Inc. Common and Preferred Stock 185 shares 41,682 Alaska Air Group Inc. Common and Preferred Stock 1818 shares 40,555 Vail Resorts Inc. Common and Preferred Stock 1818 shares 39,845 Trans Union Common and Preferred Stock 182 shares 40,555 Vail Resorts Inc. Common and Preferred Stock 1278 shares 39,945 Rapid? Inc. Common and Preferred Stock 1278 shares 39,945 Rapid? Inc. Common and Preferred Stock 1278 shares 39,945 Rapid? Inc. Common and Preferred Stock 1278 shares 39,946 Exact Sciences Corporation Common and Preferred Stock 1278 shares 39,947 Exact Sciences Corporation Common and Preferred Stock 165 shares 39,364 BioRad Laboratories, Inc. Class A Common and Preferred Stock 1278 shares 39,564 BioRad Laboratories, Inc. Class A Common and Preferred Stock 305 shares 39,364 Diamondade Air Company Common and Preferred Stoc	Irobot Corporation	Common and Preferred Stock 765 shares	64,061
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Five Below, Inc. Common and Preferred Stock 508 shares 51,979 Neurocrine Biosciences, Inc. Common and Preferred Stock 705 shares 48,655 Teradyne, Inc. Common and Preferred Stock 309 shares 48,200 Chart Industries Inc. Common and Preferred Stock 1,536 shares 48,200 Chart Industries Inc. Common and Preferred Stock 710 shares 46,171 Insulet Corporation Common and Preferred Stock 5,468 shares 44,895 Glu Mobile Inc. Common and Preferred Stock 5,666 shares 44,127 Tivilio Inc. Class A Common and Preferred Stock 5,468 shares 44,127 Tivilio Inc. Class A Common and Preferred Stock 5,468 shares 42,155 Alaska Air Group Inc. Common and Preferred Stock 89 shares 41,682 Madison Square Garden Company Class A Common and Preferred Stock 152 shares 40,690 TransUnion Common and Preferred Stock 152 shares 40,690 TransUnion Common and Preferred Stock 124 shares 40,555 Vail Resorts Inc. Common and Preferred Stock 128 shares 39,845 Rapid7 Inc. Common and Preferred Stock 1,196 shares 39,845 Rapid7 Inc. Common and Preferred Stock 1,196 shares 39,802 Urban Outfitters Inc. Common and Preferred Stock 1,278 shares 39,802 Urban Outfitters Inc. Common and Preferred Stock 1,278 shares 39,845 Bio/Rad Laboratories, Inc. Class A Common and Preferred Stock 1,278 shares 39,564 Bio/Rad Laboratories, Inc. Class A Common and Preferred Stock 1,196 shares 37,437 Aerie Pharmaceuticals Inc. Common and Preferred Stock 1,219 shares 38,316 Tiffany & Company Common and Preferred Stock 8,219 shares 35,682 Sage Therapeutics Inc. Common and Preferred Stock 8,36 shares 31,102 Diamondback Energy Inc. Common and Preferred Stock 8,30 shares 31,102 Diamondback Energy Inc. Common and Preferred Stock 8,50 shares 30,419 Callon Petroleum Company Common and Preferred Stock 1,87 shares 30,419 Callon Petroleum Company Common and Preferred Stock 1,85 shares 30,419 Callon Petroleum Company Common and Preferred Stock 1,85 shares 30,419 Callon Petroleum Company Common and Preferred Stock 1,86 s	SBV Financial Group	Common and Preferred Stock 304 shares	57,736
Neurocrine Biosciences, Inc. Common and Preferred Stock 705 shares 48,655 Teradyne, Inc. Common and Preferred Stock 1,356 shares 48,200 Charl Industries Inc. Common and Preferred Stock 1,536 shares 48,200 Charl Industries Inc. Common and Preferred Stock 1,536 shares 44,171 Insulet Corporation Common and Preferred Stock 566 shares 44,895 Glu Mobile Inc. Common and Preferred Stock 566 shares 44,127 Twilio Inc. Class A Common and Preferred Stock 485 shares 43,311 Semtech Corporation Common and Preferred Stock 485 shares 41,215 Alaska Air Group Inc. Common and Preferred Stock 685 shares 41,682 Madison Square Garden Company Class A Common and Preferred Stock 152 shares 40,690 Trans-Union Common and Preferred Stock 152 shares 40,655 Vail Resorts Inc. Common and Preferred Stock 1,196 shares 39,845 Rapid7 Inc. Common and Preferred Stock 1,278 shares 39,842 Urban Outlitters Inc. Common and Preferred Stock 1,196 shares 39,707 Exact Sciences Corporation Common and Preferred Stock 1,196 shares 39,316 Tiffany & Company Common and Preferred Stock 165 shares 39,316 Tiffany & Company Common and Preferred Stock 91 shares 35,775 Pure Storage Inc. Class A Common and Preferred Stock 91 shares 35,775 Pure Storage Inc. Class A Common and Preferred Stock 91 shares 35,775 Pure Storage Inc. Class A Common and Preferred Stock 91 shares 35,775 Pure Storage Inc. Class A Common and Preferred Stock 91 shares 35,795 Pure Storage Inc. Class A Common and Preferred Stock 93 shares 30,991 Burlington Stores Inc. Common and Preferred Stock 187 shares 30,419 Callon Petroleum Company Common and Preferred Stock 187 shares 30,419 Callon Petroleum Company Common and Preferred Stock 4,629 shares 30,424 Bas Restaurants Inc. Common and Preferred Stock 1,869 shares 29,278 Wex Inc. Common and Preferred Stock 1,969 shares 29,278 Wex Inc. Common and Preferred Stock 2,36 shares 20,278	PTC Inc.	Common and Preferred Stock 639 shares	52,973
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Alaska Air Group Inc. Common and Preferred Stock 685 shares Al,682 Madison Square Garden Company Class A Common and Preferred Stock 152 shares 40,690 TransUnion Common and Preferred Stock 714 shares 40,555 Vail Resorts Inc. Common and Preferred Stock 189 shares 39,845 Rapid7 Inc. Common and Preferred Stock 1,278 shares 39,822 Urban Outfitters Inc. Common and Preferred Stock 1,196 shares 39,707 Exact Sciences Corporation Common and Preferred Stock 627 shares 39,564 Bio/Rad Laboratories, Inc. Class A Common and Preferred Stock 165 shares 38,316 Tiffany & Company Common and Preferred Stock 465 shares 37,437 Aerie Pharmaceuticals Inc. Common and Preferred Stock 991 shares 35,775 Pure Storage Inc. Class A Common and Preferred Stock 991 shares 35,682 Sage Therapeutics Inc. Common and Preferred Stock 336 shares 31,102 Diamondback Energy Inc. Common and Preferred Stock 330 shares 30,591 Burlington Stores Inc. Common and Preferred Stock 187 shares 30,419 Callon Petroleum Company Common and Preferred Stock 4629 shares 30,042 BJs Restaurants Inc. Common and Preferred Stock 590 shares 29,836 Advanced Micro Devices Inc. Common and Preferred Stock 1,586 shares 29,278 Wex Inc. Common and Preferred Stock 199 shares 27,872 Strategic Education Inc. Common and Preferred Stock 226 shares	Twilio Inc. Class A	Common and Preferred Stock 485 shares	43,311
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Callon Petroleum CompanyCommon and Preferred Stock 4,629 shares30,042BJs Restaurants Inc.Common and Preferred Stock 590 shares29,836Advanced Micro Devices Inc.Common and Preferred Stock 1,586 shares29,278Wex Inc.Common and Preferred Stock 199 shares27,872Strategic Education Inc.Common and Preferred Stock 236 shares26,767	Burlington Stores Inc.	Common and Preferred Stock 187 shares	30,419
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Wex Inc.Common and Preferred Stock 199 shares27,872Strategic Education Inc.Common and Preferred Stock 236 shares26,767			
Strategic Education Inc. Common and Preferred Stock 236 shares 26,767			
	MSCI Inc. Common	Common and Preferred Stock 170 shares	25,063

Identity of Issue	Description of Investment	Current Value	
Mongodb Inc. Class A Class A	Common and Preferred Stock 282 shares	23,615	
GoDaddy Inc. Class A	Common and Preferred Stock 358 shares	23,492	
Madrigal Pharmaceuticals Inc.	Common and Preferred Stock 185 shares	20,853	
Trupanion Inc.	Common and Preferred Stock 730 shares	18,586	
Harsco Corporation	Common and Preferred Stock 911 shares	18,092	
Intra/Cellular Therapies, Inc.	Common and Preferred Stock 1,311 shares	14,932	
Malibu Boats Inc. Class A	Common and Preferred Stock 429 shares	14,929	
Viking Therapeutics Inc.	Common and Preferred Stock 1,920 shares	14,688	
Amedisys Inc.	Common and Preferred Stock 115 shares	13,468	
Total Small-Mid Cap Growth Asset Class			,145,791
·			
Small-Mid Cap Index Asset Class:			
NT Collective Extended Equity Market Index Fund / Non Lending*	Collective Trust Fund 118,588 units	20,489,553	
Total Small-Mid Cap Index Asset Class		20	,489,553
Small-Mid Cap Value Asset Class:			
NT Collective Russell 2000 Value Index Fund / Non Lending*	Collective Trust Fund 10,739 units	2,900,061	
NT Collective Short Term Investment Fund*	Collective Trust Fund 906,044 units	906,044	
Popular, Inc.*	Common and Preferred Stock 10,980 shares	518,476	
Citigroup Inc.	Common and Preferred Stock 12,380 shares	473,783	
Tri Pointe Group Inc.	Common and Preferred Stock 40,665 shares	444,468	
Whiting Petroleum Corporation	Common and Preferred Stock 15,625 shares	354,531	
Ameris Bancorp	Common and Preferred Stock 10,375 shares	328,576	
Hewlett Packard Enterprise Company	Common and Preferred Stock 24,600 shares	324,966	
Citizens Financial Group, Inc.	Common and Preferred Stock 10,600 shares	315,138	
First Horizon National Corporation	Common and Preferred Stock 23,749 shares	312,537	
KBR Inc.	Common and Preferred Stock 20,410 shares	309,824	
Axis Capital Holdings Limited	Common and Preferred Stock 5,585 shares	288,409	
RenaissanceRe Holdings Limited	Common and Preferred Stock 2,020 shares	270,074	
Mellanox Technologies Limited	Common and Preferred Stock 2,765 shares	255,431	
Goodyear Tire & Rubber Company	Common and Preferred Stock 11,800 shares	240,838	
Bemis Company Inc.	Common and Preferred Stock 5,056 shares	232,070	
Western Alliance Bancorporation	Common and Preferred Stock 5,876 shares	232,043	
Bio/Rad Laboratories, Inc. Class A	Common and Preferred Stock 975 shares	226,415	
Discovery Communications, Inc. Series C	Common and Preferred Stock 9,800 shares	226,184	
Kosmos Energy Limited	Common and Preferred Stock 54,400 shares	221,408	
Taylor Morrison Home Corporation	Common and Preferred Stock 13,850 shares	220,215	
The Bank of N.T. Butterfield & Son Limited	Common and Preferred Stock 7,000 shares	219,450	
RPT Realty Shares Of Beneficial Interest	Common and Preferred Stock 18,155 units	216,952	
The Geo Group, Inc.	Common and Preferred Stock 10,730 shares	211,381	
Haverty Furniture Companies, Inc.	Common and Preferred Stock 11,175 shares	209,867	
Avnet, Inc.	Common and Preferred Stock 5,800 shares	209,380	
Reliance Steel & Aluminum Company	Common and Preferred Stock 2,935 shares	208,884	
ARRIS International PLC	Common and Preferred Stock 6,800 shares	207,876	
EnerSys	Common and Preferred Stock 2,655 shares	206,055	

Identity of Issue	Description of Investment	Current Value		
BorgWarner Inc.	Common and Preferred Stock 5,815 shares	202,013		
Office Depot, Inc.	Common and Preferred Stock 76,800 shares 198,144			
Allegheny Technologies Inc.	Common and Preferred Stock 9,080 shares	197,672		
CNO Financial Group, Inc.	Common and Preferred Stock 13,190 shares	196,267		
Cairn Energy PLC	Common and Preferred Stock 51,700 shares	193,875		
Quanta Services Inc.	Common and Preferred Stock 6,270 shares	188,727		
Carrizo Oil & Gas Inc.	Common and Preferred Stock 16,295 shares	183,971		
EQT Corporation	Common and Preferred Stock 9,675 shares	182,761		
ICF International, Inc.	Common and Preferred Stock 2,780 shares	180,088		
Foot Locker Inc.	Common and Preferred Stock 3,385 shares	180,082		
McDermott International Inc.	Common and Preferred Stock 26,900 shares	175,926		
Embraer SA	Common and Preferred Stock 7,900 shares	174,827		
Amerco	Common and Preferred Stock 530 shares	173,898		
Superior Energy Services Inc.	Common and Preferred Stock 51,270 shares	171,755		
Royal Mail PLC	Common and Preferred Stock 24,200 shares	166,012		
Knight-Swift Transportation Holdings Inc.	Common and Preferred Stock 6,620 shares	165,963		
Kemper Corporation	Common and Preferred Stock 2,480 shares	164,622		
Innospec Inc.	Common and Preferred Stock 2,584 shares	159,588		
Coherent, Inc.	Common and Preferred Stock 1,509 shares	159,516		
Equitrans Midstream Corporation NPV Wi	Common and Preferred Stock 7,932 shares	158,799		
PH Glatfelter Company	Common and Preferred Stock 15,985 shares	156,014		
Acacia Communications Inc.	Common and Preferred Stock 4,100 shares	155,800		
Navistar International Corporation	Common and Preferred Stock 6,000 shares	155,700		
C&J Energy Services Inc.	Common and Preferred Stock 11,000 shares	148,500		
Generac Holdings Inc.	Common and Preferred Stock 2,980 shares	148,106		
United Financial Bancorp Inc.	Common and Preferred Stock 10,060 shares	147,882		
Getty Realty Corporation	Common and Preferred Stock 4,940 units	145,285		
Jacobs Engineering Group Inc.	Common and Preferred Stock 2,405 shares	140,596		
Neophotonics Corporation	Common and Preferred Stock 21,300 shares	138,024		
Albany International Corporation Class A	Common and Preferred Stock 2,200 shares	137,346		
ViaSat, Inc.	Common and Preferred Stock 2,320 shares	136,764		
Synchrony Financial	Common and Preferred Stock 5,800 shares	136,068		
Reinsurance Group of America, Inc.	Common and Preferred Stock 955 shares	133,920		
Great Lakes Dredge & Dock Corporation	Common and Preferred Stock 20,160 shares	133,459		
Mammoth Energy Services Inc.	Common and Preferred Stock 7,380 shares	132,692		
Tutor Perini Corporation	Common and Preferred Stock 8,290 shares	132,391		
Banner Corporation	Common and Preferred Stock 2,460 shares	131,561		
Gulfport Energy Corporation	Common and Preferred Stock 20,080 shares	131,524		
MGIC Investment Corporation	Common and Preferred Stock 12,570 shares	131,482		
PPDC Energy Inc.	Common and Preferred Stock 4,390 shares	130,646		
AXA Equitable Holdings Inc.	Common and Preferred Stock 7,800 shares	129,714		
HomeStreet Inc.	Common and Preferred Stock 6,100 shares	129,503		
Ophir Energy Company	Common and Preferred Stock 141,200 shares	128,393		
Bunge Limited	Common and Preferred Stock 2,400 shares	128,256		
Magna International Inc.	Common and Preferred Stock 2,800 shares	127,260		
Netscout Systems Inc.	Common and Preferred Stock 5,310 shares	125,475		
Teradyne, Inc.	Common and Preferred Stock 3,995 shares	125,363		

Identity of Issue	Description of Investment	Current Value
LivaNova PLC	Common and Preferred Stock 1,365 shares	124,857
Brandywine Realty Trust	Common and Preferred Stock 9,701 units	124,852
Astronics Corporation	Common and Preferred Stock 4,100 shares	124,845
Carpenter Technology Corporation	Common and Preferred Stock 3,500 shares	124,635
BMC Stock Holdings Inc.	Common and Preferred Stock 7,835 shares	121,286
Texas Capital Bancshares, Inc.	Common and Preferred Stock 2,370 shares	121,083
Cummins Inc.	Common and Preferred Stock 905 shares	120,944
Fulton Financial Corporation	Common and Preferred Stock 7,430 shares	115,016
PPL Corporation ISIN US69351T1060	Common and Preferred Stock 3,900 shares	110,487
Ally Financial Inc.	Common and Preferred Stock 4,700 shares	106,502
Ardmore Shipping Corporation	Common and Preferred Stock 22,660 shares	105,822
Smart Global Holdings Inc. Common Stock	Common and Preferred Stock 3,550 shares	105,435
Spirit Airlines, Inc.	Common and Preferred Stock 1,820 shares	105,414
Cypress Semiconductor Corporation	Common and Preferred Stock 8,215 shares	104,495
Apogee Enterprises, Inc.	Common and Preferred Stock 3,460 shares	103,281
Central Pacific Financial Corporation	Common and Preferred Stock 4,200 shares	102,270
Haynes International Inc.	Common and Preferred Stock 3,760 shares	99,264
Microstrategy Inc. Class A	Common and Preferred Stock 770 shares	98,368
High Point Resources Corporation	Common and Preferred Stock 39,250 shares	97,733
LGI Homes Inc.	Common and Preferred Stock 2,150 shares	97,223
Apache Corporation	Common and Preferred Stock 3,700 shares	97,125
Bed Bath & Beyond Inc.	Common and Preferred Stock 8,400 shares	95,088
Century Communities, Inc.	Common and Preferred Stock 5,470 shares	94,412
Discover Financial Services	Common and Preferred Stock 1,600 shares	94,368
National Bank Holdings Corporation Class A	Common and Preferred Stock 3,000 shares	92,610
Pacwest Bancorp Company	Common and Preferred Stock 2,770 shares	92,186
Schweitzer-Mauduit International Inc.	Common and Preferred Stock 3,560 shares	89,178
Mallinckrodt PLC	Common and Preferred Stock 5,600 shares	88,480
First Foundation Inc.	Common and Preferred Stock 6,820 shares	87,705
Euronet Worldwide, Inc.	Common and Preferred Stock 850 shares	87,023
Essent Group Limited	Common and Preferred Stock 2,520 shares	86,134
Northfield Bancorp Inc.	Common and Preferred Stock 6,320 shares	85,636
Corning Inc.	Common and Preferred Stock 2,800 shares	84,588
FreightCar America, Inc.	Common and Preferred Stock 12,630 shares	84,495
Commscope Holding Company Inc.	Common and Preferred Stock 5,100 shares	83,589
Tower International Inc.	Common and Preferred Stock 3,500 shares	83,300
News Corporation Class A	Common and Preferred Stock 7,300 shares	82,855
Brixmor Property Group Inc.	Common and Preferred Stock 5,640 shares	82,852
Snap-On Incorporated	Common and Preferred Stock 555 shares	80,636
Orion Marine Group, Inc.	Common and Preferred Stock 18,480 shares	79,279
Ladder Capital Corporation	Common and Preferred Stock 5,080 shares	78,588
Peapack/Gladstone Financial Corporation	Common and Preferred Stock 3,110 shares	78,310
ManpowerGroup Inc.	Common and Preferred Stock 1,200 shares	77,760
Commvault Systems Inc.	Common and Preferred Stock 1,310 shares	77,408
Extreme Networks Inc.	Common and Preferred Stock 12,630 shares	77,043
Del Taco Restaurants Inc.	Common and Preferred Stock 7,690 shares	76,823
Piedmont Office Realty Tru-A	Common and Preferred Stock 4,480 shares	76,339

Schedule H, line 4i – Schedule of Assets (Held at End of Year) (continued)

Identity of Issue	Description of Investment	Current Value		
Qorvo, Inc.	Common and Preferred Stock 1,255 shares	76,216		
Granite Construction Inc.	Common and Preferred Stock 1,880 shares 75,726			
Scorpio Tankers Inc.	Common and Preferred Stock 41,560 shares	73,146		
Equity Commonwealth	Common and Preferred Stock 2,430 shares	72,924		
Murphy Oil Corporation	Common and Preferred Stock 3,000 shares	70,170		
Ericsson Inc.	Common and Preferred Stock 7,800 shares	69,186		
Kennedy/Wilson Holdings, Inc.	Common and Preferred Stock 3,750 shares	68,138		
The Hanover Insurance Group, Inc.	Common and Preferred Stock 580 shares	67,727		
Parsley Energy Inc. Class A	Common and Preferred Stock 4,205 shares	67,196		
Solaris Oilfield Infrastructure Inc. Class Acl A	Common and Preferred Stock 5,540 shares	66,979		
Air Transport Services Group Inc.	Common and Preferred Stock 2,930 shares	66,833		
Adient PLC	Common and Preferred Stock 4,400 shares	66,264		
Tile Shop Holdings Inc.	Common and Preferred Stock 12,060 shares	66,089		
Hibbett Sports Inc.	Common and Preferred Stock 4,600 shares	65,780		
Nexpoint Residential Trust Inc.	Common and Preferred Stock 1,840 shares	64,492		
Portland General Electric Company	Common and Preferred Stock 1,390 shares	63,732		
Investors Real Estate Trust Shares Of Beneficial Interest (Post Rev Split)	Common and Preferred Stock 1,292 shares	63,398		
Industrial Logistics Properties Treasury Shares Beneficial Interest Shares	Common and Preferred Stock 3,170 shares	62,354		
Enstar Group Ltd.	Common and Preferred Stock 370 shares	62,001		
United Community Bank Blairsville Georgia	Common and Preferred Stock 2,880 shares	61,805		
Origin Bancorp Inc.	Common and Preferred Stock 1,800 shares	61,344		
Santander Consumer USA Holdings, Inc.	Common and Preferred Stock 3,400 shares	59,806		
UMH Properties Inc.	Common and Preferred Stock 5,000 shares	59,200		
Covanta Holding Corporation	Common and Preferred Stock 4,380 shares	58,780		
YRC Worldwide Inc.	Common and Preferred Stock 18,560 shares	58,464		
State Bank Financial Corporation	Common and Preferred Stock 2,640 shares	56,998		
Sallie Mae Corporation	Common and Preferred Stock 6,800 shares	56,508		
Fifth Third Bancorp	Common and Preferred Stock 2,400 shares	56,472		
Colony Capital Inc. Class A	Common and Preferred Stock 12,000 shares	56,160		
Avis Budget Group Inc.	Common and Preferred Stock 2,400 shares	53,952		
QAD Inc. Class A	Common and Preferred Stock 1,360 shares	53,489		
Mesa Air Group Inc.	Common and Preferred Stock 6,840 shares	52,736		
ALLETE Inc.	Common and Preferred Stock 690 shares	52,592		
Ooma Inc.	Common and Preferred Stock 3,780 shares	52,466		
Stealthgas Inc.	Common and Preferred Stock 18,700 shares	51,612		
Lattice Semiconductor Company	Common and Preferred Stock 7,305 shares	50,551		
PNM Resources, Inc.	Common and Preferred Stock 1,230 shares	50,541		
NorthWestern Corporation	Common and Preferred Stock 850 shares	50,524		
Boise Cascade Company	Common and Preferred Stock 2,100 shares	50,085		
Libbey, Inc.	Common and Preferred Stock 11,860 shares	46,017		
Allison Transmission Holdings, Inc.	Common and Preferred Stock 1,000 shares	43,910		
CBS Corporation Class B	Common and Preferred Stock 1,000 shares	43,720		
Teradata Corporation	Common and Preferred Stock 1,100 shares	42,196		
Kearny Financial Corporation	Common and Preferred Stock 3,290 shares	42,178		
Zimmer Biomet Holdings Inc	Common and Preferred Stock 400 shares	41,488		

Schedule H, line 4i – Schedule of Assets (Held at End of Year) (continued)

Identity of Issue	Description of Investment	Current Val	ue
Materion Corporation	Common and Preferred Stock 895 shares	40,266	
Accuray Inc.	Common and Preferred Stock 11,670 shares	39,795	
NRG Energy, Inc.	Common and Preferred Stock 1,000 shares	39,600	
e.l.f. Beauty Inc.	Common and Preferred Stock 4,530 shares	39,230	
Tailored Brands Inc.	Common and Preferred Stock 2,830 shares	38,601	
State Street Corporation	Common and Preferred Stock 600 shares	37,842	
Alleghany Corporation	Common and Preferred Stock 60 shares	37,399	
Interpublic Group Companies Inc.	Common and Preferred Stock 1,800 shares	37,134	
NN Inc.	Common and Preferred Stock 5,290 shares	35,496	
Eclipse Resources Corporation	Common and Preferred Stock 32,610 shares	34,241	
Franks International NV	Common and Preferred Stock 6,100 shares	31,842	
El Paso Electric Company	Common and Preferred Stock 630 shares	31,582	
MDC Partners Inc. Class A	Common and Preferred Stock 11,540 shares	30,119	
Aerohive Networks Inc.	Common and Preferred Stock 9,120 shares	29,731	
Tetra Tech, Inc.	Common and Preferred Stock 17,050 shares	28,644	
Ribbon Communications Inc.	Common and Preferred Stock 5,660 shares	27,281	
KEYW Holding Corporation	Common and Preferred Stock 4,000 shares	26,760	
Trinity Biotech PLC	Common and Preferred Stock 10,640 shares	24,366	
Marathon Oil Corporation	Common and Preferred Stock 1,500 shares	21,510	
Potlatchdeltic Corporation	Common and Preferred Stock 580 shares	18,351	
Onespan Inc.	Common and Preferred Stock 1,360 shares	17,612	
Delek US Holdings Inc.	Common and Preferred Stock 520 shares	16,905	
Hess Corporation LLC	Common and Preferred Stock 400 shares	16,200	
Ferroglobe PLC	Common and Preferred Stock 10,100 shares	16,059	
Servicesource International	Common and Preferred Stock 14,740 shares	15,919	
Resolute Energy Corporation	Common and Preferred Stock 540 shares	15,649	
Tetra Tech, Inc.	Warrant 6,560 shares	722	
otal Small-Mid Cap Value Asset Class			26,471,989
otes Receivable From Participants*	Interest Rate 4.25% - 9.25%	13,559,277	
			13,559,277
rand Total		<u> </u>	421,458,136

^{*} Indicates party-in-interest

THE RETIREMENT AND SAVINGS PLAN FOR AMGEN MANUFACTURING, LIMITED

INDEX TO EXHIBIT

Consent of Independent Registered Public Accounting Firm

Exhibit 23.1

SIGNATURES

Pursuant to the requirements of the Securities Ex	schange Act of 1934, the trustee	es (or other persons w	ho administer the employe	e benefit plan) ha	ave duly
caused this annual report to be signed on its behalf b	y the undersigned hereunto duly	authorized.			

The Retirement and Savings Plan for Amgen Manufacturing, Limited (Name of Plan)

Date: June 17, 2019 By: /s/ DAVID W. MELINE

David W. Meline Deputy Chairman and Chief Financial Officer Amgen Manufacturing, Limited

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the Registration Statements (Form S-8 Nos. 33-47605, 333-144580 and 333-216715) pertaining to The Retirement and Savings Plan for Amgen Manufacturing, Limited of Amgen Inc. of our report dated June 17, 2019, with respect to the financial statements and schedule of The Retirement and Savings Plan for Amgen Manufacturing, Limited included in this Annual Report (Form 11-K) for the year ended December 31, 2018.

/s/ ERNST & YOUNG LLP

Los Angeles, California

June 17, 2019