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, 2019

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

Year Ended December 31, 2019

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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, 2019 and 2018, and the related statement of changes in net assets available for benefits for the year ended December 31, 2019, 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, 2019 and 2018, and the changes in its net assets available for benefits for the year ended December 31, 2019, 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, 2019, 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 16, 2020

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

	Decen	nber 31	l ,
	 2019		2018
Assets			
Investments at fair value	\$ 527,261,698	\$	407,898,859
Notes receivable from participants	15,872,871		14,040,310
Other – principally due from broker	494,029		470,827
Total assets	543,628,598		422,409,996
Liabilities			
Other – principally due to broker	581,092		618,395
Total liabilities	581,092		618,395
Net assets available for benefits	\$ 543,047,506	\$	421,791,601

See accompanying notes.

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

	1	Year Ended December 31, 2019
Additions to (deductions from) net assets:		
Employer contributions	\$	15,576,832
Participant contributions		15,230,624
Rollover contributions		532,295
Interest and dividend income		4,992,030
Net realized/unrealized gains		95,270,354
Interest income on notes receivable from participants		747,783
Benefits paid		(10,418,189)
Investment and administrative fees		(675,824)
Net increase		121,255,905
Net assets available for benefits at beginning of year		421,791,601
Net assets available for benefits at end of year	\$	543,047,506

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 December 12, 2019. 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 2019. 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 2019. 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 2019. 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 \$11,200 in 2019 (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 \$14,000 in 2019.

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 and Matching Contributions and earnings and losses (hereafter referred to as earnings) thereon. Participants hired prior to January 1, 2020, are also immediately vested with respect to their Core Contributions and earnings thereon. Participants hired on or after January 1, 2020, vest in full with respect to their Core Contributions and earnings thereon after three years of service, as defined by the terms of the Plan, or upon reaching age 65 while employed by the Company, if earlier. If a participant ceases to be an employee before fully vesting in their account, the non-vested portion of the participant's account will be treated as a forfeiture, as defined by the terms of the Plan, on the earlier of (i) the date the participant incurs a five-year break in service, as defined by the terms of the Plan or, (ii) the date the participant receives a distribution of the entire vested portion of their account.

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 and Custodians

Banco Popular de Puerto Rico is the Plan's trustee. Bank of America, N.A.is the Plan's trustee with respect to self-directed brokerage arrangement and the Amgen common stock fund. Merrill Lynch, Pierce, Fenner and Smith, Inc.is the Plan's custodian with respect to the self-directed brokerage arrangement and the Amgen Common Stock fund. Northern Trust Company, NA (Northern) is the Plan's custodian with respect to the asset classes.

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, respectively.

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 amended the fair value hierarchy disclosure to indicate that certain types of investments, including collective trust funds, 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 Plan prospectively adopted this standard on January 1, 2019, which resulted 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 was moved from its location as a reconciling item of the fair value hierarchy table to a line item within this table with an assigned fair value measurement level. See Note 3, *Fair Value Measurements*.

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 v	alue	e measurements a	it De	cember 31, 2019	, usi	ng
	Quoted prices in active markets for identical assets (Level 1)		Significant other observable inputs (Level 2)	ı	Significant unobservable inputs (Level 3)		Total
Amgen stock	\$ 103,512,169	\$	_	\$	_	\$	103,512,169
Cash and cash equivalents	1,116,538		_		_		1,116,538
Collective trust funds	_		305,516,006		_		305,516,006
Common and preferred stock	91,588,716		329,692		_		91,918,408
Mutual funds	22,607,250		_		_		22,607,250
Self-directed brokerage accounts	2,591,327		_		_		2,591,327
	\$ 221,416,000	\$	305,845,698	\$		\$	527,261,698

Fair value measurements at December 31, 2018, 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	\$ 83,047,933	\$ _	\$ 	\$ 83,047,933
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

The fair values of substantially all common stocks (including Amgen stock), preferred stocks, mutual funds and underlying investments of self-directed brokerage accounts 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 the basis for current transactions. The only redemption restriction with respect to these investments is on the Wells Fargo Stable Value Fund W (fair value of \$36,097,165 and \$29,528,317 as of December 31, 2019 and 2018, respectively), 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, three amendments were made to the Plan, and the Plan received a letter from the PRTD dated October 30, 2018 and August 8, 2019, stating the PRTD has no objection to these amendments. Subsequent to these letters, 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 year 2019, 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.

5. Party-in-Interest Transactions

Parties-in-Interest are certain entities defined under Department of Labor regulations, including Amgen, and other parties that provide services to the Plan, such as the trustees, custodians and investment managers. The Plan pays the custodians certain administrative and investment management fees, and the Company pays certain administrative fees on behalf of the Plan. The Plan makes investments in collective trust funds managed by Northern, certain of the Plan's investment managers and other third parties and may invest in securities of entities that are parties-in-interest. The Plan also invests in shares of common stock of Amgen and receives dividends on those shares. Notes receivable from participants are also considered party-in-interest transactions.

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:

	Decen	ıber l	31,
	 2019		2018
Net assets available for benefits per the financial statements	\$ 543,047,506	\$	421,791,601
Amounts allocated to withdrawing participants	(24,938)		_
Deemed loans	(485,301)		(481,033)
Net assets per the Form 5500	\$ 542,537,267	\$	421,310,568

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

	Year Ended December 31, 2019
Benefits paid	\$ (10,418,189)
Investment and administrative fees	(675,824)
Total distributions per the financial statements	(11,094,013)
Amounts allocated to withdrawing participants at December 31, 2019	(24,938)
Deemed loans at December 31, 2018	481,033
Deemed loans at December 31, 2019	(485,301)
Total distributions per the Form 5500	\$ (11,123,219)

Supplemental Schedule The Retirement and Savings Plan for Amgen Manufacturing, Limited EIN: 98-0210484 Plan: #001 As of December 31, 2019

Identity of Issue	Description of Investment	Current Value		/alue
Amgen Stock*	Employer Securities 429,387 shares	\$	103,512,169	
			\$	103,512,169
Capital Preservation Asset Class:				
Wells Fargo Stable Value Fund W*	Collective Trust Fund 630,818 units		36,097,165	
NT Collective Short Term Investment Fund*	Collective Trust Fund 2,824,684 units		2,824,684	
Total Capital Preservation Asset Class				38,921,849
Emerging Markets Equity Asset Class:				
J.P. Morgan Emerging Markets Equity Focus Fund*	Collective Trust Fund 164,907 units		4,340,358	
Blackrock FTSE RAFI Emerging Index Non Lendable Fund F*	Collective Trust Fund 291,747 units		4,148,291	
NT Collective Emerging Markets Fund / Non Lending*	Collective Trust Fund 2,887 units		563,583	
Total Emerging Markets Equity Asset Class				9,052,232
Fixed Income Asset Class:				
Metlife Core Plus Collective Fund*	Collective Trust Fund 1,066,560 units		10,697,593	
Wellington Core Bond Plus Portfolio Collective Investment Trust II*	Collective Trust Fund 838,989 units		10,697,109	
Northern Trust Global Investments Collective Daily				
Aggregate Bond Index Fund Non Lending*	Collective Trust Fund 27,252 units		4,161,927	
Putnam Absolute Return Fixed Income Fund*	Collective Trust Fund 40,209 units		3,065,549	
Schroder Global Strategic Bond Trust Class W*	Collective Trust Fund 300,821 units		3,065,362	
Interest Bearing Cash	Cash and Cash Equivalents 44 units		44	
Total Fixed Income Asset Class				31,687,584
Fixed Income Index Asset Class:				
NT Collective Aggregate Bond Index Fund / Non Lending*	Collective Trust Fund 71,005 units		10,843,819	
Total Fixed Income Index Asset Class				10,843,819
W. L. W. LLA.				
High Yield Asset Class:	C. H. at . T. at F. at 1400 205		E 85 4 5 40	
Mackay Shields High Yield Bond CIT (Fund Code-2196)*	Collective Trust Fund 486,865 units		5,754,749	
Blackrock Funds V High Yield Bond Portfolio Class K	Mutual Fund 738,118 units		5,742,560	
Total High Yield Asset Class				11,497,309
Inflation Protection Asset Class:				
NT Collective Treasury Inflation/Protected Securities Index Fund / Non Lending*	Collective Trust Fund 58,147 units		8,809,917	
Total Inflation Protection Asset Class				8,809,917

Identity of Issue	Description of Investment	Current Value	<u> </u>
International Growth Asset Class:			
Artisan International Fund*	Collective Trust Fund 260,307 units	7,168,846	
Reliance Trust Instituitional Retirement Trust GQG Partners International Equity Fund Series 11 Class C*	Collective Trust Fund 662,794 units	7,045,499	
NT Collective EAFE Index Fund / Non Lending*	Collective Trust Fund 2,163 units	1,778,350	
Interest Bearing Cash	Cash and Cash Equivalents 31 units	31	
Total International Growth Asset Class			15,992,726
International Index Asset Class:			
NT Collective All Country World Index (ACWI) Ex/US Fund / Non Lending*	Collective Trust Fund 134,757 units	22,472,134	
Total International Index Asset Class			22,472,134
International Value Asset Class:			
Altrinsic International Equity Fund Class C*	Collective Trust Fund 390,069 units	5,141,183	
Dodge & Cox International Fund	Mutual Fund 116,612 units	5,084,285	
NT Collective EAFE Index Fund / Non Lending*	Collective Trust Fund 2,163 units	746,455	
Northern Trust Global Investments Collective Daily Short Term Investment Fund - Non Lending*	Collective Trust Fund 1,033 units	1,033	
Total International Value Asset Class			10,972,956
Large Cap Growth Asset Class:			
Northern Trust Global Investments Collective Daily Russell 1000 Growth Index Fund - Non Lending*	Collective Trust Fund 4,460 units	2,467,109	
Visa Inc. Class A	Common and Preferred Stock 13,071 shares	2,456,041	
Amazon Inc.	Common and Preferred Stock 1,272 shares	2,350,452	
Salesforce.com Inc.	Common and Preferred Stock 7,042 shares	1,843,524	
Microsoft Corporation	Common and Preferred Stock 11,603 shares	1,829,793	
Intuit Inc.	Common and Preferred Stock 3,235 shares	1,591,225	
Facebook Inc.	Common and Preferred Stock 6,843 shares	1,404,526	
Northern Trust Global Investments Collective Daily Short Term Investment Fund - Non Lending*	Collective Trust Fund 1,299,539 units	1,299,539	
ServiceNow Inc.	Common and Preferred Stock 4,237 shares	1,196,190	
UnitedHealth Group Inc.	Common and Preferred Stock 4,055 shares	1,192,089	
Yum! Brands Inc.	Common and Preferred Stock 11,204 shares	1,128,579	
Illumina, Inc.	Common and Preferred Stock 1,658 shares	1,065,881	
Paypal Holdings Inc.	Common and Preferred Stock 9,347 shares	1,011,065	
Autodesk Inc.	Common and Preferred Stock 5,451 shares	1,000,040	
Abbott Laboratories	Common and Preferred Stock 11,303 shares	981,779	
Alphabet Inc. Class C	Common and Preferred Stock 731 shares	977,362	
Nike Inc. Class B	Common and Preferred Stock 9,537 shares	966,193	
Mondelez International Inc.	Common and Preferred Stock 17,287 shares	952,168	
Adobe Systems Inc.	Common and Preferred Stock 2,827 shares	932,373	

Identity of Issue	Description of Investment	Current Value	
Workday Inc. Class A	Common and Preferred Stock 3,758 shares	867,967	
Match Group Inc.	Common and Preferred Stock 10,437 shares	856,982	
Equinix Inc.	Common and Preferred Stock 1,460 shares	852,202	
Alphabet Inc. Class A	Common and Preferred Stock 625 shares	837,119	
TJX Companies Inc.	Common and Preferred Stock 12,930 shares	789,506	
Ecolab, Inc.	Common and Preferred Stock 4,000 shares	771,960	
Becton, Dickinson and Company	Common and Preferred Stock 2,799 shares	761,244	
Netflix, Inc.	Common and Preferred Stock 2,297 shares	743,240	
Danaher Corporation	Common and Preferred Stock 4,835 shares	742,076	
Booking Holdings Inc.	Common and Preferred Stock 349 shares	716,752	
FleetCor Technologies Inc.	Common and Preferred Stock 2,449 shares	704,627	
Alibaba Group Holding Limited	Common and Preferred Stock 3,279 shares	695,476	
Costar Group Inc.	Common and Preferred Stock 1,147 shares	686,250	
Automatic Data Processing, Inc.	Common and Preferred Stock 3,604 shares	614,482	
Regeneron Pharmaceuticals, Inc.	Common and Preferred Stock 1,599 shares	600,393	
Edwards Lifesciences Corporation	Common and Preferred Stock 2,511 shares	585,791	
Zoetis Inc. Class A	Common and Preferred Stock 4,256 shares	563,282	
IHS Markit Limited	Common and Preferred Stock 7,015 shares	528,580	
Linde PLC	Common and Preferred Stock 2,436 shares	518,624	
Ulta Salon Cosmetics & Fragrance Inc.	Common and Preferred Stock 2,035 shares	515,140	
Novo Nordisk A/S	Common and Preferred Stock 8,682 shares	502,514	
Estee Lauder Companies Inc. Class A	Common and Preferred Stock 2,148 shares	443,648	
Texas Instruments Inc.	Common and Preferred Stock 3,059 shares	392,439	
Monster Beverage Corp	Common and Preferred Stock 6,011 shares	381,999	
Align Technology Inc.	Common and Preferred Stock 1,291 shares	360,241	
Floor & Decor Holdings Inc.	Common and Preferred Stock 6,675 shares	339,157	
Activision Blizzard Inc.	Common and Preferred Stock 4,372 shares	259,784	
Sarepta Therapeutics Inc.	Common and Preferred Stock 1,926 shares	248,531	
Mirati Therapeutics Inc.	Common and Preferred Stock 1,567 shares	201,924	
Atlassian Corporation PLC Class A	Common and Preferred Stock 1,565 shares	188,332	
Twilio Inc. Class A	Common and Preferred Stock 1,645 shares	161,671	
Abiomed Inc.	Common and Preferred Stock 843 shares	143,807	
Sea Limited	Common and Preferred Stock 2,185 shares	87,881	
otal Large Cap Growth Asset Class:			4,309,549
· ·			
arge Cap Index Asset Class:			
NT Collective S&P 500 Index Fund – Non Lending*	Collective Trust Fund 9,934 units	114,337,374	
otal Large Cap Index Asset Class			4,337,374
arge Cap Value Asset Class:			
Northern Trust Collective Russell 1000 Value Index Fund - Non Lending*	Collective Trust Fund 1,978 units	829,341	
Alphabet Inc.	Common and Preferred Stock 471 shares	629,736	
Microsoft Corporation	Common and Preferred Stock 3,432 shares	541,226	
National Oilwell Varco, Inc.	Common and Preferred Stock 19,500 shares	490,730	

Opcove, Inc. Common and Preferred Stock 3,007 shares 473,437 Althus SE Common and Preferred Stock 3,007 shares 440,417 CVS Health Corporation Common and Preferred Stock 13,044 shares 392,161 ARTHER CORNEL (Class A) Common and Preferred Stock 13,444 shares 392,161 Anazon Inc. Common and Preferred Stock 11,79 shares 30,763 Facebook Inc. Class A Common and Preferred Stock 1,75 shares 302,597 Mostercal Inc. Class A Common and Preferred Stock 1,75 shares 317,103 Mostercal Inc. Class A Common and Preferred Stock 1,662 shares 317,103 Stock Re AG Common and Preferred Stock 2,840 shares 317,103 Walson Morthside Holdings Inc. Common and Preferred Stock 2,840 shares 314,984 Marioti International Inc. Class A Common and Preferred Stock 2,840 shares 301,346 Wells Fage & Company* Common and Preferred Stock 2,840 shares 301,346 Wells Fage & Company* Common and Preferred Stock 3,000 shares 207,738 Nvial Inc. Claiss A Common and Preferred Stock 3,000 shares 207,738 Nvial Inc. Claiss A Common and Preferred Stock 1,764 shares <th>Identity of Issue</th> <th>Description of Investment</th> <th>Current Value</th>	Identity of Issue	Description of Investment	Current Value
CVS Health Corporation Common and Preferred Stock 5,619 shares 417,436 KKR & Company Inc. Class A Common and Preferred Stock 13,444 shares 392,161 Anthem Inc. Common and Preferred Stock 179 shares 309,763 Anazona Inc. Common and Preferred Stock 1,798 shares 30,763 Booking Holdings Inc. Common and Preferred Stock 1,578 shares 322,336 Masterard Inc. Class A Common and Preferred Stock 1,508 shares 317,003 Styles Re AG Common and Preferred Stock 2,840 shares 314,593 Hilton Worldwide Holdings Inc. Common and Preferred Stock 2,840 shares 301,346 Hilton Worldwide Holdings Inc. Common and Preferred Stock 2,840 shares 301,346 Wells Pago & Company* Common and Preferred Stock 2,840 shares 201,349 Wells Engo & Company* Common and Preferred Stock 3,000 shares 267,738 Nvidia Corporation Common and Preferred Stock 6,600 shares 267,738 Nvidia Corporation Common and Preferred Stock 6,600 shares 267,241 Bank of America Corporation* Common and Preferred Stock 1,600 shares 246,540 Bank of America Corporation Common and Preferred S	Qorvo, Inc.	Common and Preferred Stock 4,075 shares	473,637
KKR & Company Inc. Class A Common and Preferred Stock 1,249 shares 39,151 Anabron Inc. Common and Preferred Stock 1,289 shares 389,317 Facebook Inc. Class A Common and Preferred Stock 1,588 shares 325,937 Booking Holdings Inc. Common and Preferred Stock 1,588 shares 325,937 Swiss Re AG Common and Preferred Stock 2,820 shares 317,103 Swiss Re AG Common and Preferred Stock 2,820 shares 316,533 Illiano Worldwide Holdings Inc. Common and Preferred Stock 2,900 shares 301,346 Marrior International Inc. Class A Common and Preferred Stock 3,900 shares 301,346 Interest Bearing Cash Common and Preferred Stock 3,900 shares 290,520 Wells Frag & Company* Common and Preferred Stock 3,500 shares 287,738 Visida Copporation Common and Preferred Stock 3,600 shares 287,738 Visida Copporation Common and Preferred Stock 5,500 shares 282,418 Capital One Financial Corporation Common and Preferred Stock 5,500 shares 222,421 Capital Corporation Common and Preferred Stock 1,764 shares 225,43 Capital Corporation Common and Preferred Stoc	Airbus SE	Common and Preferred Stock 3,007 shares	440,417
Anthem Inc. Common and Preferred Stock 1,209 shares 309,73 Amazon Inc. Common and Preferred Stock 1,79 shares 309,73 Feccebook Inc. Class A Common and Preferred Stock 1,78 shares 325,937 Booking Holdings Inc. Common and Preferred Stock 1,002 shares 317,03 Mastercard Inc. Class A Common and Preferred Stock 1,002 shares 316,533 Hillon Worldwide Holdings Inc. Common and Preferred Stock 1,890 shares 301,346 Marriott International Inc. Class A Common and Preferred Stock 1,990 shares 301,346 Marriott International Inc. Class A Common and Preferred Stock 1,990 shares 301,346 Wells Fago, & Company* Common and Preferred Stock 1,990 shares 297,129 Wells Fago, & Company* Common and Preferred Stock 1,220 shares 289,050 Vasa Inc. Class A Common and Preferred Stock 1,220 shares 289,060 Vasa Inc. Class A Common and Preferred Stock 1,201 shares 281,060 Salaric Class A Common and Preferred Stock 1,203 shares 243,960 Classier Class A Common and Preferred Stock 1,200 shares 243,960 Classier Class A Common and Preferred Stock 1,00	CVS Health Corporation	Common and Preferred Stock 5,619 shares	417,436
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Feebook Inc. Class A Common and Preferred Stock 1,588 shares 322,436 Booking Holdings Inc. Common and Preferred Stock 1,662 shares 312,103 Swiss Re AG Common and Preferred Stock 1,662 shares 314,553 White Mondroide Holdings Inc. Common and Preferred Stock 2,820 shares 316,553 White Mondroide Holdings Inc. Common and Preferred Stock 2,820 shares 301,346 White Fargo & Company* Common and Preferred Stock 2,840 shares 301,346 White Fargo & Company* Common and Preferred Stock 1,999 shares 301,346 White Fargo & Company* Common and Preferred Stock 5,400 shares 297,189 White Fargo & Company* Common and Preferred Stock 5,400 shares 287,738 White Charles & Chewo Corporation Common and Preferred Stock 6,450 shares 287,738 White Charles & Company* Common and Preferred Stock 1,520 shares 287,066 Was Inc. Class A Common and Preferred Stock 1,520 shares 287,066 Was Inc. Class A Common and Preferred Stock 1,520 shares 287,066 Was Inc. Class A Common and Preferred Stock 1,520 shares 287,066 Was Inc. Class A Common and Preferred Stock 5,500 shares 249,540 Was General Corporation* Common and Preferred Stock 5,500 shares 249,540 Was General Composition Common and Preferred Stock 1,600 shares 241,936 Was General Corporation Common and Preferred Stock 5,000 shares 242,540 Was General Corporation Common and Preferred Stock 5,100 shares 225,143 White Preferred Stock 5,100 shares 225,143 Was General Corporation Common and Preferred Stock 1,100 shares 225,143 White Preferred Stock 5,100 shares 200,171 White Preferred Stock 5,100 shares 200,171 White Preferred Stock 5,100 shares 200,471 White Preferred Stock 5,100 shares 20	Anthem Inc.	Common and Preferred Stock 1,289 shares	389,317
Booking Holdings Inc. Common and Preferred Stock 1,505 shares 317,103 Masserad Inc. Class A Common and Preferred Stock 2,820 shares 316,553 Skiss Re AG Common and Preferred Stock 2,840 shares 314,984 Marriott International Inc. Class A Common and Preferred Stock 1,999 shares 301,346 Melis Fargis & Company* Common and Preferred Stock 1,999 shares 209,520 The Charles Schwab Corporation Common and Preferred Stock 6,505 shares 287,738 Visial Corporation Common and Preferred Stock 1,220 shares 287,066 Visa Inc. Class A Common and Preferred Stock 5,505 shares 282,421 Capital One Financial Corporation Common and Preferred Stock 5,505 shares 282,421 Salak of America Corporation* Common and Preferred Stock 5,505 shares 282,421 Capital One Financial Corporation Common and Preferred Stock 5,500 shares 282,496 Charles Corporation Common and Preferred Stock 5,000 shares 282,996 Charles Corporation Common and Preferred Stock 5,000 shares 282,143 Clouds Corporation Sala Common and Preferred Stock 5,100 shares 292,147 Clouds Corporation Sala S	Amazon Inc.	Common and Preferred Stock 179 shares	330,763
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Term Investment Fund - Non Lending*Collective Trust Fund 212,180 units212,180Occidental Petroleum CorporationCommon and Preferred Stock 5,100 shares210,171AmerisourceBergen Corp.Common and Preferred Stock 2,447 shares208,044Bristol-Myers Squibb CompanyCommon and Preferred Stock 3,200 shares205,408Sanofi-AventisCommon and Preferred Stock 4,050 shares203,310Everest Re Group LtdCommon and Preferred Stock 732 shares202,647Oracle CorporationCommon and Preferred Stock 3,747 shares198,516United Parcel Service Inc. Class BCommon and Preferred Stock 1,528 shares178,868United Parcel Service Inc. Class BCommon and Preferred Stock 2,914 shares168,429Brookfield Asset Management Inc. Voting Shares Class ACommon and Preferred Stock 2,914 shares166,709Broche Holdings LimitedCommon and Preferred Stock 4,100 shares166,709The Goldman Sachs Group Inc.Common and Preferred Stock 4,100 shares166,709United Technologies CorporationCommon and Preferred Stock 1,100 shares164,736Microchip Technology Inc.Common and Preferred Stock 1,550 shares162,316Novartis AGCommon and Preferred Stock 1,700 shares159,188MetLife Inc.*Common and Preferred Stock 53, 3 shares159,188MetLife Inc.*Common and Preferred Stock 3,100 shares156,180Johnson Controls International PLCCommon and Preferred Stock 3,793 shares154,413Bank of New York Mellon CorporationCommon and Preferred Stock 3,000 shares <t< td=""><td>Cigna Corporation</td><td>Common and Preferred Stock 1,101 shares</td><td>225,143</td></t<>	Cigna Corporation	Common and Preferred Stock 1,101 shares	225,143
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UnitedHealth Group Inc.Common and Preferred Stock 575 shares169,039Brookfield Asset Management Inc. Voting Shares Class ACommon and Preferred Stock 2,914 shares168,429Roche Holdings LimitedCommon and Preferred Stock 4,100 shares166,706The Goldman Sachs Group Inc.Common and Preferred Stock 725 shares166,699United Technologies CorporationCommon and Preferred Stock 1,100 shares164,736Microchip Technology Inc.Common and Preferred Stock 1,550 shares162,316Novartis AGCommon and Preferred Stock 1,700 shares160,973S&P Global Inc.Common and Preferred Stock 583 shares159,188MetLife Inc.*Common and Preferred Stock 3,100 shares158,007HP Inc.Common and Preferred Stock 7,600 shares156,180Johnson Controls International PLCCommon and Preferred Stock 3,793 shares154,413Bank of New York Mellon CorporationCommon and Preferred Stock 3,000 shares150,990	Oracle Corporation	Common and Preferred Stock 3,747 shares	198,516
UnitedHealth Group Inc.Common and Preferred Stock 575 shares169,039Brookfield Asset Management Inc. Voting Shares Class ACommon and Preferred Stock 2,914 shares168,429Roche Holdings LimitedCommon and Preferred Stock 4,100 shares166,706The Goldman Sachs Group Inc.Common and Preferred Stock 725 shares166,699United Technologies CorporationCommon and Preferred Stock 1,100 shares164,736Microchip Technology Inc.Common and Preferred Stock 1,550 shares162,316Novartis AGCommon and Preferred Stock 1,700 shares160,973S&P Global Inc.Common and Preferred Stock 583 shares159,188MetLife Inc.*Common and Preferred Stock 3,100 shares158,007HP Inc.Common and Preferred Stock 7,600 shares156,180Johnson Controls International PLCCommon and Preferred Stock 3,793 shares154,413Bank of New York Mellon CorporationCommon and Preferred Stock 3,000 shares150,990	United Parcel Service Inc. Class B	Common and Preferred Stock 1,528 shares	178,868
Roche Holdings Limited Common and Preferred Stock 4,100 shares 166,706 The Goldman Sachs Group Inc. Common and Preferred Stock 725 shares 166,699 United Technologies Corporation Common and Preferred Stock 1,100 shares 164,736 Microchip Technology Inc. Common and Preferred Stock 1,550 shares 162,316 Novartis AG Common and Preferred Stock 1,700 shares 160,973 S&P Global Inc. Common and Preferred Stock 583 shares 159,188 MetLife Inc.* Common and Preferred Stock 3,100 shares 158,007 HP Inc. Common and Preferred Stock 7,600 shares 156,180 Johnson Controls International PLC Common and Preferred Stock 3,793 shares 150,990	UnitedHealth Group Inc.	Common and Preferred Stock 575 shares	
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United Technologies Corporation Common and Preferred Stock 1,100 shares 164,736 Microchip Technology Inc. Common and Preferred Stock 1,550 shares 162,316 Novartis AG Common and Preferred Stock 1,700 shares 160,973 S&P Global Inc. Common and Preferred Stock 583 shares 159,188 MetLife Inc.* Common and Preferred Stock 3,100 shares 158,007 HP Inc. Common and Preferred Stock 7,600 shares 156,180 Johnson Controls International PLC Common and Preferred Stock 3,793 shares 154,413 Bank of New York Mellon Corporation Common and Preferred Stock 3,000 shares 150,990	Roche Holdings Limited	Common and Preferred Stock 4,100 shares	166,706
Microchip Technology Inc.Common and Preferred Stock 1,550 shares162,316Novartis AGCommon and Preferred Stock 1,700 shares160,973S&P Global Inc.Common and Preferred Stock 583 shares159,188MetLife Inc.*Common and Preferred Stock 3,100 shares158,007HP Inc.Common and Preferred Stock 7,600 shares156,180Johnson Controls International PLCCommon and Preferred Stock 3,793 shares154,413Bank of New York Mellon CorporationCommon and Preferred Stock 3,000 shares150,990	The Goldman Sachs Group Inc.	Common and Preferred Stock 725 shares	166,699
Novartis AG Common and Preferred Stock 1,700 shares 160,973 S&P Global Inc. Common and Preferred Stock 583 shares 159,188 MetLife Inc.* Common and Preferred Stock 3,100 shares 158,007 HP Inc. Common and Preferred Stock 7,600 shares 156,180 Johnson Controls International PLC Common and Preferred Stock 3,793 shares 154,413 Bank of New York Mellon Corporation Common and Preferred Stock 3,000 shares 150,990	United Technologies Corporation	Common and Preferred Stock 1,100 shares	164,736
S&P Global Inc. Common and Preferred Stock 583 shares 159,188 MetLife Inc.* Common and Preferred Stock 3,100 shares 158,007 HP Inc. Common and Preferred Stock 7,600 shares 156,180 Johnson Controls International PLC Common and Preferred Stock 3,793 shares 154,413 Bank of New York Mellon Corporation Common and Preferred Stock 3,000 shares 150,990	Microchip Technology Inc.	Common and Preferred Stock 1,550 shares	162,316
MetLife Inc.*Common and Preferred Stock 3,100 shares158,007HP Inc.Common and Preferred Stock 7,600 shares156,180Johnson Controls International PLCCommon and Preferred Stock 3,793 shares154,413Bank of New York Mellon CorporationCommon and Preferred Stock 3,000 shares150,990	Novartis AG	Common and Preferred Stock 1,700 shares	160,973
HP Inc. Common and Preferred Stock 7,600 shares 156,180 Johnson Controls International PLC Common and Preferred Stock 3,793 shares 154,413 Bank of New York Mellon Corporation Common and Preferred Stock 3,000 shares 150,990	S&P Global Inc.	Common and Preferred Stock 583 shares	159,188
Johnson Controls International PLCCommon and Preferred Stock 3,793 shares154,413Bank of New York Mellon CorporationCommon and Preferred Stock 3,000 shares150,990	MetLife Inc.*	Common and Preferred Stock 3,100 shares	158,007
Bank of New York Mellon Corporation Common and Preferred Stock 3,000 shares 150,990	HP Inc.	Common and Preferred Stock 7,600 shares	156,180
	Johnson Controls International PLC	Common and Preferred Stock 3,793 shares	154,413
Glaxosmithkline PLC Common and Preferred Stock 3,150 shares 148,019	Bank of New York Mellon Corporation	Common and Preferred Stock 3,000 shares	150,990
	Glaxosmithkline PLC	Common and Preferred Stock 3,150 shares	148,019

Identity of Issue	Description of Investment	Current Va	lue
JP Morgan Chase & Company*	Common and Preferred Stock 950 shares	132,430	
AstraZeneca PLC	Common and Preferred Stock 2,600 shares	129,636	
Hewlett Packard Enterprise Company	Common and Preferred Stock 7,600 shares	120,536	
TE Connectivity Limited	Common and Preferred Stock 1,250 shares	119,800	
Baker Hughes	Common and Preferred Stock 4,600 shares	117,898	
American Express Company	Common and Preferred Stock 900 shares	112,041	
Truist Financial Corporation	Common and Preferred Stock 1,850 shares	104,192	
Schlumberger Limited	Common and Preferred Stock 2,450 shares	98,490	
Credit Acceptance Corporation	Common and Preferred Stock 191 shares	84,485	
Celanese Corporation	Common and Preferred Stock 650 shares	80,028	
Halliburton Company	Common and Preferred Stock 3,100 shares	75,857	
Molson Coors Brewing Company Class B	Common and Preferred Stock 1,400 shares	75,460	
Gilead Sciences Inc.	Common and Preferred Stock 1,150 shares	74,727	
Dell Technologies Inc. Class C	Common and Preferred Stock 1,450 shares	74,516	
Eli Lilly & Company	Common and Preferred Stock 550 shares	72,287	
Juniper Networks, Inc.	Common and Preferred Stock 2,900 shares	71,427	
Apache Corporation	Common and Preferred Stock 2,700 shares	69,093	
Cognizant Technology Solutions Corporation Class A	Common and Preferred Stock 1,100 shares	68,222	
Dish Network Corporation Class A	Common and Preferred Stock 1,900 shares	67,393	
Hess Corporation LLC	Common and Preferred Stock 1,000 shares	66,810	
Concho Resources Inc.	Common and Preferred Stock 750 shares	65,678	
Cisco Systems Inc.	Common and Preferred Stock 1,300 shares	62,348	
Fox Corporation Class A	Common and Preferred Stock 1,550 shares	57,459	
Medtronic PLC	Common and Preferred Stock 400 shares	45,380	
Alnylam Pharmaceuticals, Inc.	Common and Preferred Stock 350 shares	40,310	
State Street Corporation	Common and Preferred Stock 500 shares	39,550	
Mattel Inc.	Common and Preferred Stock 2,500 shares	33,875	
Maxim Integrated Products Inc.	Common and Preferred Stock 550 shares	33,831	
Biomarin Pharmaceutical Inc.	Common and Preferred Stock 400 shares	33,820	
The Gap Inc.	Common and Preferred Stock 1,700 shares	30,056	
Fox Corporation Class B	Common and Preferred Stock 766 shares	27,882	
Micro Focus International PLC	Common and Preferred Stock 1,981 shares	27,793	
Brighthouse Financial Inc.	Common and Preferred Stock 700 shares	27,461	
Sprint Corporation	Common and Preferred Stock 5,024 shares	26,175	
Qurate Retail Inc.	Common and Preferred Stock 3,100 shares	26,133	
Aegon N.V.	Common and Preferred Stock 5,700 shares	25,821	
Harley/Davidson Motor Company	Common and Preferred Stock 550 shares	20,455	
Incyte Corporation	Common and Preferred Stock 200 shares	17,464	
News Corporation Class A	Common and Preferred Stock 700 shares	9,898	
otal Large Cap Value Asset Class			16,618,29
articipant Self-Directed Accounts	Various Investments	2,591,327	
			2,591,32
eal Estate Index Asset Class:			
Vanguard Real Estate Index Fund Institutional Shares	Mutual Fund 578,321 units	11,780,405	

Identity of Issue	Description of Investment	Current Value
NT Collective Global Real Estate Index Fund - Non Lending*	Collective Trust Fund 4,931 units	1,165,380
Total Real Estate Index Asset Class		12,945,785
Small-Mid Cap Growth Asset Class:		
Northern Trust Global Investment Russell 2000 Growth	Callantina Truck Ford 005 units	272.754
Index Fund - Non Lending*	Cook and Cook Equipments 252 966 units	373,754 352,866
Interest Bearing Cash Clean Harbors Inc.	Cash and Cash Equivalents 352,866 units Common and Preferred Stock 2,523 shares	216,347
Dexcom Inc.	Common and Preferred Stock 796 shares	174,117
Logmein Inc.	Common and Preferred Stock 1,847 shares	158,362
RingCentral, Inc. Class A	Common and Preferred Stock 905 shares	152,646
On Semiconductor Corporation	Common and Preferred Stock 5,689 shares	138,698
Hanesbrands Inc.	Common and Preferred Stock 8,078 shares	119,958
Sally Beauty Holdings Inc.	Common and Preferred Stock 6,454 shares	117,786
Inspire Medical Systems Inc.	Common and Preferred Stock 1,564 shares	116,064
Skechers USA Inc. Class A	Common and Preferred Stock 2,685 shares	115,965
SBV Financial Group	Common and Preferred Stock 450 shares	112,968
Crown Holdings Inc.	Common and Preferred Stock 1,543 shares	111,929
Burlington Stores Inc.	Common and Preferred Stock 458 shares	104,438
Sensata Technologies BV Holding	Common and Preferred Stock 1,936 shares	104,292
J2 Global Inc.	Common and Preferred Stock 1,096 shares	102,706
Keysight Technologies Inc.	Common and Preferred Stock 990 shares	101,604
Exact Sciences Corporation	Common and Preferred Stock 1,057 shares	97,751
CONMED Corporation	Common and Preferred Stock 851 shares	95,167
Masco Corporation	Common and Preferred Stock 1,966 shares	94,348
Q2 Holdings Inc.	Common and Preferred Stock 1,150 shares	93,242
Kansas City Southern	Common and Preferred Stock 607 shares	92,968
Trinet Group Inc.	Common and Preferred Stock 1,610 shares	91,142
Tandem Diabetes Care Inc.	Common and Preferred Stock 1,497 shares	89,236
Five9 Inc.	Common and Preferred Stock 1,289 shares	84,533
Pinnacle Financial Partners	Common and Preferred Stock 1,304 shares	83,456
Rapid7 Inc.	Common and Preferred Stock 1,488 shares	83,358
TransUnion	Common and Preferred Stock 965 shares	82,614
Horizon Therapeutics PLC	Common and Preferred Stock 2,276 shares	82,391
STERIS plc	Common and Preferred Stock 535 shares	81,545
CarMax Inc.	Common and Preferred Stock 930 shares	81,533
AAR Corporation	Common and Preferred Stock 1,736 shares	78,294
Cinemark Holdings Inc.	Common and Preferred Stock 2,295 shares	77,686
ABM Industrials Inc.	Common and Preferred Stock 2,056 shares	77,532
SS&C Technologies Holdings Inc.	Common and Preferred Stock 1,245 shares	76,443
Nuance Communications Inc.	Common and Preferred Stock 4,243 shares	75,653
Solarwinds Corporation	Common and Preferred Stock 4,077 shares	75,628
Mednax Inc.	Common and Preferred Stock 2,718 shares	75,533
Everbridge Inc.	Common and Preferred Stock 925 shares	72,224
Tyler Technologies Inc.	Common and Preferred Stock 240 shares	72,005
Ritchie Bros Auctioneers Inc.	Common and Preferred Stock 1,664 shares	71,469

Identity of Issue	Description of Investment	Current Value
Biotelemetry Inc.	Common and Preferred Stock 1,534 shares	71,024
Belden Inc.	Common and Preferred Stock 1,279 shares	70,345
Insulet Corporation	Common and Preferred Stock 409 shares	70,021
Polaris Inc.	Common and Preferred Stock 685 shares	69,665
John Bean Technologies Corporation	Common and Preferred Stock 608 shares	68,497
Anaplan Inc.	Common and Preferred Stock 1,261 shares	66,076
Tennant Company	Common and Preferred Stock 826 shares	64,362
Chewy Inc. Class A	Common and Preferred Stock 2,169 shares	62,901
Middleby Corporation	Common and Preferred Stock 573 shares	62,755
Cimpress plc	Common and Preferred Stock 497 shares	62,508
Viavi Solutions Inc. NPV	Common and Preferred Stock 4,144 shares	62,160
Natera Inc.	Common and Preferred Stock 1,814 shares	61,114
Carter Inc.	Common and Preferred Stock 546 shares	59,700
Merit Medical Systems Inc.	Common and Preferred Stock 1,877 shares	58,600
Owens Corning	Common and Preferred Stock 889 shares	57,892
Northern Trust Global Investments Collective Daily Short		
Term Investment Fund - Non Lending*	Collective Trust Fund 57,848 units	57,848
Zebra Technologies Corporation	Common and Preferred Stock 220 shares	56,197
Amedisys Inc.	Common and Preferred Stock 335 shares	55,918
Kirby Corporation	Common and Preferred Stock 622 shares	55,688
Cornerstone OnDemand Inc.	Common and Preferred Stock 951 shares	55,681
Lattice Semiconductor Company	Common and Preferred Stock 2,879 shares	55,104
Frontdoor Inc.	Common and Preferred Stock 1,162 shares	55,102
Syneos Health Inc.	Common and Preferred Stock 926 shares	55,074
2U Inc.	Common and Preferred Stock 2,237 shares	53,666
Inphi Corporation	Common and Preferred Stock 715 shares	52,924
Papa Johns International Inc.	Common and Preferred Stock 828 shares	52,288
Shutterstock Inc.	Common and Preferred Stock 1,174 shares	50,341
Heartland Express Inc.	Common and Preferred Stock 2,309 shares	48,604
LHC Group Inc.	Common and Preferred Stock 352 shares	48,492
Penumbra Inc.	Common and Preferred Stock 291 shares	47,803
Ambarella Inc. Shares	Common and Preferred Stock 775 shares	46,934
Axogen Inc.	Common and Preferred Stock 2,585 shares	46,246
Crocs Inc.	Common and Preferred Stock 1,097 shares	45,953
Lululemon Athletica Inc.	Common and Preferred Stock 198 shares	45,871
Chegg Inc.	Common and Preferred Stock 1,205 shares	45,682
Haemonetics Corporation	Common and Preferred Stock 397 shares	45,615
Grand Canyon Education Inc.	Common and Preferred Stock 464 shares	44,447
Woodward Inc.	Common and Preferred Stock 369 shares	43,704
C.H. Robinson Worldwide Inc.	Common and Preferred Stock 555 shares	43,401
Tetra Tech Inc.	Common and Preferred Stock 500 shares	43,080
Trimble Inc.	Common and Preferred Stock 1,027 shares	42,816
Sea Limited	Common and Preferred Stock 1,060 shares	42,633
Nordson Corporation	Common and Preferred Stock 255 shares	41,524
Fireeye Inc.	Common and Preferred Stock 2,465 shares	40,746
Gartner Inc.	Common and Preferred Stock 254 shares	39,141

Integral Lifectiones Holding Corporation	Identity of Issue	Description of Investment	Current Value
Quidel Corporation Common and Preferred Stock 24/12 sheres 37,215 Switch Inc. Cless A Common and Preferred Stock 24/12 sheres 36,633 Robota Inc. Cless A Common and Preferred Stock 27/12 sheres 35,788 Deciphere Pharmaceucicals Inc. Common and Preferred Stock 575 shares 35,788 Hamilton Lane Inc. Class A Common and Preferred Stock 671 shares 34,805 Forward Alf Corporation Common and Preferred Stock 674 shares 34,805 Workerise World Wide Inc. Common and Preferred Stock 1,204 shares 34,802 Under Armour Inc. Class C Common and Preferred Stock 1,204 shares 34,152 Under Armour Inc. Class C Common and Preferred Stock 1,204 shares 34,152 Under Armour Inc. Class C Common and Preferred Stock 1,204 shares 33,173 Under Armour Inc. Class C Common and Preferred Stock 1,204 shares 33,173 Widdomary Inc. Class A Common and Preferred Stock 1,364 shares 33,173 Widdomary Inc. Class A Common and Preferred Stock 1,364 shares 33,173 Use Dr. Class A Common and Preferred Stock 1,364 shares 32,918 Will Class A Common and Preferred Stock 1	Integra Lifesciences Holding Corporation	Common and Preferred Stock 669 shares	38,989
Switch Inc. Class A Common and Preferred Stock, 2472 shares 36,635 Roka Inc. Class A Common and Preferred Stock, 269 shares 30,019 Deciphers Pharmaceucicals Inc. Common and Preferred Stock, 364 shares 35,537 Matson Inc. Common and Preferred Stock, 874 shares 34,806 Forward Air Copperation Common and Preferred Stock, 864 shares 34,805 Wolverine World Wide Inc. Common and Preferred Stock, 1022 shares 34,482 Indired Amour Inc. Class C Common and Preferred Stock, 1,614 shares 34,152 Indired Amour Inc. Class C Common and Preferred Stock, 1,614 shares 34,152 Revance Therapeutics Inc. Common and Preferred Stock, 1,614 shares 33,153 Miscommer Inc. Preserved Stock, 1,616 shares 33,173 Graphic Packaging Holding Company Common and Preferred Stock, 1,643 shares 33,173 Oli Clin. Common and Preferred Stock, 1,765 shares 32,913 Pitterest Inc. Class A Common and Preferred Stock, 1,765 shares 32,913 Pitterest Inc. Class A Common and Preferred Stock, 1,766 share 32,913 Prest Inc. Class A Common and Preferred Stock, 275 shares 32	Teradyne Inc.	Common and Preferred Stock 549 shares	37,436
Robu Inc. Class A Common and Preferred Stock 269 shares 36,198 Decipher Pharmaceuticals Inc. Common and Preferred Stock 571 shares 35,788 Masson Inc. Common and Preferred Stock 571 shares 35,537 Hamilton Lane Inc. Class A Common and Preferred Stock 10,22 shares 34,805 Forward Air Corporation Common and Preferred Stock 10,22 shares 34,482 Under Amour Inc. Class C Common and Preferred Stock 10,22 shares 34,182 Information Inc. Class C Common and Preferred Stock 10,22 shares 34,182 Revance Therapeutics Inc. Common and Preferred Stock 16,64 shares 33,173 Wisdomize Investments Inc. Common and Preferred Stock 16,66 shares 33,173 Graphic Packaging Holding Company Common and Preferred Stock 16,81 shares 32,918 NIC Inc. Common and Preferred Stock 16,184 shares 32,918 NIC Inc. Common and Preferred Stock 16,184 shares 32,918 NIC Inc. Common and Preferred Stock 16,184 shares 32,918 NIC Inc. Common and Preferred Stock 16,184 shares 32,918 NIF Plancial Holdings Inc. Common and Preferred Stock 13,384 shares 3	Quidel Corporation	Common and Preferred Stock 496 shares	37,215
Deciphera Pharmaceuticals Inc.	Switch Inc. Class A	Common and Preferred Stock 2,472 shares	36,635
Mason Inc. Common and Preferred Stock 871 shares 35,537 Hamilho Lane Inc. Class A Common and Preferred Stock 1549 shares 34,065 Forward Air Corporation Common and Preferred Stock 1,022 shares 34,482 Wolveine World Wide Inc. Common and Preferred Stock 1,022 shares 34,182 Under Armour Inc. Class C Common and Preferred Stock 1,614 shares 33,531 Revance Therapeutics Inc. Common and Preferred Stock 1,614 shares 33,531 Wisdomiree Investments Inc. Common and Preferred Stock 1,848 shares 33,034 Wisdomiree Investments Inc. Common and Preferred Stock 1,849 shares 32,948 Wisdomiree Investments Inc. Common and Preferred Stock 1,849 shares 32,948 Wisdomiree Investments Inc. Common and Preferred Stock 1,849 shares 32,948 Wisdomiree Investments Inc. Common and Preferred Stock 1,849 shares 32,941 Wisdomiree Investments Inc. Common and Preferred Stock 1,849 shares 32,941 Wisdomiree Investments Inc. Common and Preferred Stock 1,849 shares 32,941 Book Sam Holdhings Inc. Common and Preferred Stock 2,345 shares 31,675 Book Sam Holdhings Inc.	Roku Inc. Class A	Common and Preferred Stock 269 shares	36,019
Hamilton Lane Inc. Class A Common and Preferred Stock 366 shares 34,006 Forward Air Corporation Common and Preferred Stock 366 shares 34,482 Wolveriew World Wide Inc. Common and Preferred Stock 1,022 shares 34,482 Under Armour Inc. Class C Common and Preferred Stock 1,783 shares 34,198 Immunomedics Inc. Common and Preferred Stock 2,066 shares 33,331 Wisdomtree Investments Inc. Common and Preferred Stock 1,964 shares 33,331 Wisdomtree Investments Inc. Common and Preferred Stock 1,964 shares 32,966 NIC Inc. Common and Preferred Stock 1,476 shares 32,966 Pinterest Inc. Class A Common and Preferred Stock 1,476 shares 32,918 Reato Pharmaceuticals Inc. Class A Common and Preferred Stock 1,561 shares 32,911 Bot Barn Holdings Inc. Common and Preferred Stock 1,561 shares 32,941 Bot Barn Holdings Inc. Common and Preferred Stock 752 shares 30,973 Prestiget Inc. Common and Preferred Stock 752 shares 30,973 Prestiget Inc. Common and Preferred Stock 752 shares 29,909 New Relic Inc. Common and Preferred Stock 338 shares	Deciphera Pharmaceuticals Inc.	Common and Preferred Stock 575 shares	35,788
Forward Air Corporation Common and Preferred Stock 1,022 shares 34,665 Wolveine World Wide Inc. Common and Preferred Stock 1,743 shares 34,189 Unifore Armour Inc. Class C Common and Preferred Stock 1,743 shares 34,152 Immunomedics Inc. Common and Preferred Stock 2,066 shares 33,31 Revance Therapeutics Inc. Common and Preferred Stock 6,854 shares 33,73 Gaphic Packaging Holding Company Common and Preferred Stock 1,475 shares 32,94 NIC Inc. Common and Preferred Stock 1,476 shares 32,918 Reta Pharmaceuticals Inc. Class A Common and Preferred Stock 1,476 shares 32,913 Plure Stancial Holdings Inc. Common and Preferred Stock 1,476 shares 32,913 EPL Financial Holdings Inc. Common and Preferred Stock 2,35 shares 32,841 National Climenedia Inc. Common and Preferred Stock 3,45 shares 31,675 Hero Therapeutics Inc. Common and Preferred Stock 3,45 shares 30,973 Heros Elevation Tylechnologies Inc. Common and Preferred Stock 3,1318 shares 29,959 Napos Security Technologies Inc. Common and Preferred Stock 3,20 shares 28,564 Freshjer Inc.	Matson Inc.	Common and Preferred Stock 871 shares	35,537
Wotverine World Wide Inc. Common and Preferred Stock 1,702 shares 34,482 Under Armour Inc. Class C Common and Preferred Stock 1,783 shares 34,152 Inmunamendicis Inc. Common and Preferred Stock 1,614 shares 34,152 Revance Therapeutics Inc. Common and Preferred Stock 6,665 shares 33,531 Wisdomtree Investments Inc. Common and Preferred Stock 1,948 shares 33,034 NIC Inc. Common and Preferred Stock 1,475 shares 32,066 Pilnterest Inc. Class A Common and Preferred Stock 1,475 shares 32,918 Rean Pharmaceuticals Inc. Class A Common and Preferred Stock 1,615 shares 32,913 LPL Financial Holdings Inc. Common and Preferred Stock 1,615 shares 32,913 Boot Barn Holdings Inc. Common and Preferred Stock 356 shares 32,941 Heron Therapeutics Inc. Common and Preferred Stock 3435 shares 31,675 Heron Therapeutics Inc. Common and Preferred Stock 1,718 shares 30,973 Prestige Consumer Healthcae Inc. Common and Preferred Stock 1,725 shares 32,936 New Relic Inc. Common and Preferred Stock 1,752 shares 29,939 New Relic Inc. Common and Pref	Hamilton Lane Inc. Class A	Common and Preferred Stock 584 shares	34,806
Under Armour Inc. Class C Common and Preferred Stock 1,783 shares 34,192 Inmunomedics Inc. Common and Preferred Stock 2,066 shares 33,531 Wiscommer Investments Inc. Common and Preferred Stock 6,854 shares 33,173 Wiscommer Investments Inc. Common and Preferred Stock 6,854 shares 33,043 NIC Inc. Common and Preferred Stock 1,476 shares 32,908 Pinterest Inc. Class A Common and Preferred Stock 1,766 shares 32,918 Reata Pharmaceuticals Inc. Class A Common and Preferred Stock 3,766 shares 32,841 Boot Barn Holdings Inc. Common and Preferred Stock 356 shares 32,841 Boot Barn Holdings Inc. Common and Preferred Stock 725 shares 32,844 National Cinemedia Inc. Common and Preferred Stock 345 shares 31,675 Heron Therapeutics Inc. Common and Preferred Stock 1,318 shares 30,466 Pressige Consumer Holdihear Inc. Common and Preferred Stock 575 shares 29,959 Napco Security Technologies Inc. Common and Preferred Stock 307 shares 29,390 New Reli Inc. Common and Preferred Stock 337 shares 28,361 Kollak Sciences Inc. Common and Preferr	Forward Air Corporation	Common and Preferred Stock 496 shares	34,695
Immonomedics Inc. Common and Preferred Stock 1,614 shares 34,152 Revance Therapeutics Inc. Common and Preferred Stock 6,854 shares 33,531 Wisdouttree Investments Inc. Common and Preferred Stock 1,984 shares 33,034 OFaphic Packaging Holding Company Common and Preferred Stock 1,984 shares 32,946 NIC Inc. Common and Preferred Stock 1,475 shares 32,966 Pinter St. Inc. Class A Common and Preferred Stock 1,476 shares 32,913 LPL Financial Holdings Inc. Common and Preferred Stock 1,416 shares 32,941 Boot Barr Holdings Inc. Common and Preferred Stock 1,316 shares 32,841 Boot Barr Holdings Inc. Common and Preferred Stock 1,318 shares 30,973 Heron Therapeutics Inc. Common and Preferred Stock 3,434 shares 30,973 Heron Therapeutics Inc. Common and Preferred Stock 1,318 shares 30,973 Prestige Consumer Healthcare Inc. Common and Preferred Stock 507 shares 29,390 New Relic Inc. Common and Preferred Stock 1,318 shares 28,381 New Sciences Inc. Common and Preferred Stock 1,000 shares 29,390 New Sciences Inc. Common and Preferred	Wolverine World Wide Inc.	Common and Preferred Stock 1,022 shares	34,482
Revance Therapeutics Inc. Common and Preferred Stock 2,066 shares 33,511 Wisdomtree Investments Inc. Common and Preferred Stock 1,984 shares 33,173 Graphic Packaging Holding Company Common and Preferred Stock 1,475 shares 32,966 NIC Inc. Common and Preferred Stock 1,475 shares 32,966 Pinterest Inc. Class A Common and Preferred Stock 161 shares 32,913 Reta Pharmaceuticals Inc. Class A Common and Preferred Stock 356 shares 32,844 Boot Barn Holdings Inc. Common and Preferred Stock 345 shares 32,844 Boot Barn Holdings Inc. Common and Preferred Stock 345 shares 30,973 Netional Cinemedia Inc. Common and Preferred Stock 345 shares 30,973 Prestige Consumer Healthcare Inc. Common and Preferred Stock 343 shares 30,973 Prestige Consumer Healthcare Inc. Common and Preferred Stock 343 shares 29,399 New Relic Inc. Common and Preferred Stock 343 shares 29,391 New Relic Inc. Common and Preferred Stock 343 shares 28,564 Holor & Evec Holdings Inc. Common and Preferred Stock 357 shares 28,564 Holor & Evec Pholdings Inc. Common an	Under Armour Inc. Class C	Common and Preferred Stock 1,783 shares	34,198
Wisdomnteen Investments Inc. Common and Preferred Stock 6,854 shares 33,173 Graphic Packaging Holding Company Common and Preferred Stock 1,984 shares 33,034 NIC Inc. Common and Preferred Stock 1,765 shares 32,918 Pinterest Inc. Class A Common and Preferred Stock 1,766 shares 32,918 Reata Pharmaceuticals Inc. Class A Common and Preferred Stock 356 shares 32,841 Boot Barn Holdings Inc. Common and Preferred Stock 356 shares 32,841 National Cinemedia Inc. Common and Preferred Stock 34,345 shares 31,675 Heron Therapeutics Inc. Common and Preferred Stock 43,45 shares 30,973 Prestige Consumer Hallchare Inc. Common and Preferred Stock 37,25 shares 30,953 Prestige Consumer Hallchare Inc. Common and Preferred Stock 570 shares 29,959 Naco Security Technologies Inc. Common and Preferred Stock 340 shares 28,761 New Relic Inc. Common and Preferred Stock 326 shares 28,761 Floor & Decor Holdings Inc. Common and Preferred Stock 357 shares 28,761 Agios Pharmaceuticals Inc. Common and Preferred Stock 326 shares 27,709 Nevro Corporation	Immunomedics Inc.	Common and Preferred Stock 1,614 shares	34,152
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Pinterest Inc. Class A Common and Preferred Stock 1,766 shares 32,913 Reata Pharmaceuticals Inc. Class A Common and Preferred Stock 161 shares 32,913 LPL Financial Holdings Inc. Common and Preferred Stock 356 shares 32,244 National Cinemedia Inc. Class A Common and Preferred Stock 356 shares 32,244 National Cinemedia Inc. Common and Preferred Stock 4,345 shares 32,244 National Cinemedia Inc. Common and Preferred Stock 4,345 shares 32,244 National Cinemedia Inc. Common and Preferred Stock 1,318 shares 30,973 Prestige Consumer Healthcare Inc. Common and Preferred Stock 1,318 shares 39,456 Prestige Consumer Healthcare Inc. Common and Preferred Stock 575 shares 29,599 Napco Security Technologies Inc. Common and Preferred Stock 507 shares 29,390 New Relic Inc. Common and Preferred Stock 507 shares 29,390 New Relic Inc. Common and Preferred Stock 397 shares 28,761 Kodiak Sciences Inc. Common and Preferred Stock 397 shares 28,761 Kodiak Sciences Inc. Common and Preferred Stock 597 shares 28,261 Stoor & Decor Holdings Inc. Common and Preferred Stock 597 shares 28,261 New Corporation Common and Preferred Stock 597 shares 28,261 New Corporation Common and Preferred Stock 597 shares 28,268 New Corporation Common and Preferred Stock 597 shares 28,268 New Corporation Common and Preferred Stock 236 shares 27,739 MSC Industrial Direct Inc. Class A Common and Preferred Stock 236 shares 26,299 Wabse Corporation Common and Preferred Stock 338 shares 26,299 Wabse Corporation Common and Preferred Stock 338 shares 26,299 Walking Theapeutics Inc. Common and Preferred Stock 338 shares 26,299 Walking Theapeutics Inc. Common and Preferred Stock 312 shares 26,294 Walking Theapeutics Inc. Common and Preferred Stock 312 shares 24,882 Walking Theapeutics Inc. Common and Preferred Stock 312 shares 24,882 Walking Theapeutics Inc. Common and Preferred Stock 312 shares 24,882 Walking Theapeutics Inc. Common and Preferred Stock 438 shares 23,335 Common and Preferred Stock 438 shares 23,335 Common and Preferred Stock 438 shares 23,334 Walking Th	Graphic Packaging Holding Company	Common and Preferred Stock 1,984 shares	33,034
Reata Pharmaceuticals Inc. Class A Common and Preferred Stock 161 shares 32,913 LPL Financial Holdings Inc. Common and Preferred Stock 356 shares 32,841 Boot Barn Holdings Inc. Common and Preferred Stock 725 shares 32,284 National Cinemedia Inc. Common and Preferred Stock 43.45 shares 31,675 Heron Therapeutics Inc. Common and Preferred Stock 1,318 shares 30,973 Prestige Consumer Healthcare Inc. Common and Preferred Stock 1,318 shares 30,456 Freshpet Inc. Common and Preferred Stock 507 shares 29,959 Napco Security Technologies Inc. Common and Preferred Stock 100 shares 29,390 New Relic Inc. Common and Preferred Stock 388 shares 28,781 Kodiak Sciences Inc. Common and Preferred Stock 388 shares 28,861 Floor & Decor Holdings Inc. Common and Preferred Stock 397 shares 28,266 Floor & Decor Holdings Inc. Common and Preferred Stock 557 shares 28,266 Floor & Decor Holdings Inc. Common and Preferred Stock 559 shares 28,266 Floor & Decor Holdings Inc. Common and Preferred Stock 559 shares 28,266 Floor & Decor Holdings Inc. Common and Preferred Stock 559 shares 28,266 Floor & Decor Holdings Inc. Common and Preferred Stock 559 shares 28,266 Floor & Decor Holdings Inc. Common and Preferred Stock 530 shares 27,739 MSC Industrial Direct Inc. Class A Common and Preferred Stock 230 shares 27,739 MSC Industrial Direct Inc. Class A Common and Preferred Stock 230 shares 26,441 Floor proposition Common and Preferred Stock 230 shares 26,499 Wabtec Corporation Common and Preferred Stock 338 shares 26,696 Walking Therapeutics Inc. Common and Preferred Stock 338 shares 26,169 Walking Therapeutics Inc. Common and Preferred Stock 338 shares 26,169 Walking Therapeutics Inc. Common and Preferred Stock 318 shares 26,169 Walking Therapeutics Inc. Common and Preferred Stock 318 shares 26,164 Walking Therapeutics Inc. Common and Preferred Stock 318 shares 24,182 Walking Therapeutics Inc. Common and Preferred Stock 318 shares 24,169 Walking Therapeutics Inc. Common and Preferred Stock 238 shares 24,169 Walking Therapeutics Inc. Common and Prefer	NIC Inc.	Common and Preferred Stock 1,475 shares	32,966
LPL Financial Holdings Inc. Common and Preferred Stock 356 shares 32,841 Boot Barn Holdings Inc. Common and Preferred Stock 725 shares 32,284 National Cinemedia Inc. Common and Preferred Stock 4,345 shares 31,675 Heron Therapeutics Inc. Common and Preferred Stock 1,318 shares 30,973 Prestige Consumer Healthcare Inc. Common and Preferred Stock 1,318 shares 30,456 Freshpet Inc. Common and Preferred Stock 575 shares 30,456 Freshpet Inc. Common and Preferred Stock 575 shares 20,9959 Napco Security Technologies Inc. Common and Preferred Stock 1,000 shares 20,3900 New Relic Inc. Common and Preferred Stock 397 shares 28,781 Kodiak Sciences Inc. Common and Preferred Stock 397 shares 28,264 Floor & Decor Holdings Inc. Common and Preferred Stock 397 shares 28,268 New Octoporation Common and Preferred Stock 520 shares 28,268 New Octoporation Common and Preferred Stock 520 shares 28,268 New Octoporation Common and Preferred Stock 520 shares 28,268 New Octoporation Common and Preferred Stock 236 shares 27,730 Abiomed Inc. Common and Preferred Stock 333 shares 26,441 Proofpoint Inc. Common and Preferred Stock 333 shares 26,441 Proofpoint Inc. Common and Preferred Stock 330 shares 26,399 Wabtec Corporation Common and Preferred Stock 336 shares 26,296 Wiking Therapeutics Inc. Common and Preferred Stock 336 shares 26,096 Wiking Therapeutics Inc. Common and Preferred Stock 318 shares 26,024 Pluralsight Inc. Class A Common and Preferred Stock 318 shares 26,024 Pluralsight Inc. Class A Common and Preferred Stock 312 shares 28,882 Neurocine Biosciences Inc. Common and Preferred Stock 312 shares 28,882 Neurocine Biosciences Inc. Common and Preferred Stock 312 shares 24,169 Proto Labs Inc. Common and Preferred Stock 328 shares 24,169 Proto Labs Inc. Common and Preferred Stock 388 Common and Preferred Stock 312 shares 23,324 Mirati Therapeutics Inc. Common and Preferred Stock 487 shares 23,334 Mirati Therapeutics Inc. Common and Preferred Stock 574 shares 23,006 Common and Preferred Stock 675 shares 23,00	Pinterest Inc. Class A	Common and Preferred Stock 1,766 shares	32,918
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Wabtec CorporationCommon and Preferred Stock 338 shares26,296Viking Therapeutics Inc.Common and Preferred Stock 3,263 shares26,169Cooper Companies Inc.Common and Preferred Stock 81 shares26,024Pluralsight Inc. Class ACommon and Preferred Stock 1,487 shares25,591Manhattan Associates, Inc.Common and Preferred Stock 312 shares24,882Neurocrine Biosciences Inc.Common and Preferred Stock 225 shares24,185Proto Labs Inc.Common and Preferred Stock 238 shares24,169Performance Food Group CompanyCommon and Preferred Stock 463 shares23,835CarGurus Inc. Class ACommon and Preferred Stock 663 shares23,024Mirati Therapeutics Inc.Common and Preferred Stock 87 shares23,066Paysoftware Inc.Common and Preferred Stock 87 shares23,034Bank OzkCommon and Preferred Stock 754 shares23,001Sage Therapeutics Inc.Common and Preferred Stock 306 shares22,090	Abiomed Inc.	Common and Preferred Stock 155 shares	26,441
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Cooper Companies Inc. Common and Preferred Stock 81 shares Common and Preferred Stock 81 shares 26,024 Pluralsight Inc. Class A Common and Preferred Stock 1,487 shares 25,591 Manhattan Associates, Inc. Common and Preferred Stock 312 shares 24,882 Neurocrine Biosciences Inc. Common and Preferred Stock 225 shares 24,185 Proto Labs Inc. Common and Preferred Stock 238 shares 24,169 Performance Food Group Company Common and Preferred Stock 463 shares 23,835 CarGurus Inc. Class A Common and Preferred Stock 663 shares 23,324 Mirati Therapeutics Inc. Common and Preferred Stock 179 shares 23,066 Paysoftware Inc. Common and Preferred Stock 87 shares 23,034 Bank Ozk Common and Preferred Stock 754 shares 23,001 Sage Therapeutics Inc. Common and Preferred Stock 306 shares 22,090	Wabtec Corporation	Common and Preferred Stock 338 shares	26,296
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Manhattan Associates, Inc.Common and Preferred Stock 312 shares24,882Neurocrine Biosciences Inc.Common and Preferred Stock 225 shares24,185Proto Labs Inc.Common and Preferred Stock 238 shares24,169Performance Food Group CompanyCommon and Preferred Stock 463 shares23,835CarGurus Inc. Class ACommon and Preferred Stock 663 shares23,324Mirati Therapeutics Inc.Common and Preferred Stock 179 shares23,066Paysoftware Inc.Common and Preferred Stock 87 shares23,034Bank OzkCommon and Preferred Stock 754 shares23,001Sage Therapeutics Inc.Common and Preferred Stock 306 shares22,090	Cooper Companies Inc.	Common and Preferred Stock 81 shares	26,024
Neurocrine Biosciences Inc.Common and Preferred Stock 225 shares24,185Proto Labs Inc.Common and Preferred Stock 238 shares24,169Performance Food Group CompanyCommon and Preferred Stock 463 shares23,835CarGurus Inc. Class ACommon and Preferred Stock 663 shares23,324Mirati Therapeutics Inc.Common and Preferred Stock 179 shares23,066Paysoftware Inc.Common and Preferred Stock 87 shares23,034Bank OzkCommon and Preferred Stock 754 shares23,001Sage Therapeutics Inc.Common and Preferred Stock 306 shares22,090	Pluralsight Inc. Class A	Common and Preferred Stock 1,487 shares	25,591
Proto Labs Inc.Common and Preferred Stock 238 shares24,169Performance Food Group CompanyCommon and Preferred Stock 463 shares23,835CarGurus Inc. Class ACommon and Preferred Stock 663 shares23,324Mirati Therapeutics Inc.Common and Preferred Stock 179 shares23,066Paysoftware Inc.Common and Preferred Stock 87 shares23,034Bank OzkCommon and Preferred Stock 754 shares23,001Sage Therapeutics Inc.Common and Preferred Stock 306 shares22,090	Manhattan Associates, Inc.	Common and Preferred Stock 312 shares	24,882
Performance Food Group CompanyCommon and Preferred Stock 463 shares23,835CarGurus Inc. Class ACommon and Preferred Stock 663 shares23,324Mirati Therapeutics Inc.Common and Preferred Stock 179 shares23,066Paysoftware Inc.Common and Preferred Stock 87 shares23,034Bank OzkCommon and Preferred Stock 754 shares23,001Sage Therapeutics Inc.Common and Preferred Stock 306 shares22,090	Neurocrine Biosciences Inc.	Common and Preferred Stock 225 shares	24,185
CarGurus Inc. Class A Common and Preferred Stock 663 shares 23,324 Mirati Therapeutics Inc. Common and Preferred Stock 179 shares 23,066 Paysoftware Inc. Common and Preferred Stock 87 shares 23,034 Bank Ozk Common and Preferred Stock 754 shares 23,001 Sage Therapeutics Inc. Common and Preferred Stock 306 shares 22,090	Proto Labs Inc.	Common and Preferred Stock 238 shares	24,169
Mirati Therapeutics Inc. Common and Preferred Stock 179 shares 23,066 Paysoftware Inc. Common and Preferred Stock 87 shares 23,034 Bank Ozk Common and Preferred Stock 754 shares 23,001 Sage Therapeutics Inc. Common and Preferred Stock 306 shares 22,090	Performance Food Group Company	Common and Preferred Stock 463 shares	23,835
Paysoftware Inc.Common and Preferred Stock 87 shares23,034Bank OzkCommon and Preferred Stock 754 shares23,001Sage Therapeutics Inc.Common and Preferred Stock 306 shares22,090	CarGurus Inc. Class A	Common and Preferred Stock 663 shares	23,324
Bank Ozk Common and Preferred Stock 754 shares 23,001 Sage Therapeutics Inc. Common and Preferred Stock 306 shares 22,090	Mirati Therapeutics Inc.	Common and Preferred Stock 179 shares	23,066
Sage Therapeutics Inc. Common and Preferred Stock 306 shares 22,090	Paysoftware Inc.	Common and Preferred Stock 87 shares	23,034
	Bank Ozk	Common and Preferred Stock 754 shares	23,001
Kennametal Inc. Common and Preferred Stock 594 shares 21,913	Sage Therapeutics Inc.	Common and Preferred Stock 306 shares	22,090
	Kennametal Inc.	Common and Preferred Stock 594 shares	21,913

Identity of Issue	Description of Investment	Current Value	
Euronet Worldwide Inc.	Common and Preferred Stock 137 shares	21,586	
Costar Group Inc.	Common and Preferred Stock 36 shares	21,539	
FTI Consulting Inc.	Common and Preferred Stock 194 shares	21,468	
Five Below, Inc.	Common and Preferred Stock 167 shares	21,353	
Docusign Inc.	Common and Preferred Stock 284 shares	21,047	
Masimo Corporation	Common and Preferred Stock 132 shares	20,864	
Universal Display Corporation	Common and Preferred Stock 100 shares	20,607	
Summit Materials Inc. Class A	Common and Preferred Stock 849 shares	20,291	
Crispr Therapeutics AG	Common and Preferred Stock 318 shares	19,368	
Constellium SE Class A	Common and Preferred Stock 1,428 shares	19,135	
Zynga Inc.	Common and Preferred Stock 3,099 shares	18,966	
Cryoport Inc.	Common and Preferred Stock 1,152 shares	18,962	
MKS Instruments	Common and Preferred Stock 171 shares	18,812	
Okta Inc. Class A	Common and Preferred Stock 162 shares	18,690	
DBV Technologies	Common and Preferred Stock 1,596 shares	17,077	
RealPage Inc.	Common and Preferred Stock 316 shares	16,985	
Fox Factory Holding Corporation	Common and Preferred Stock 235 shares	16,349	
Arrowhead Pharmaceuticals Inc.	Common and Preferred Stock 180 shares	11,417	
SmileDirectClub Inc. Class A	Common and Preferred Stock 1,044 shares	9,125	
Acadia Pharmaceuticals Inc.	Common and Preferred Stock 205 shares	8,770	
Rignet Inc.	Common and Preferred Stock 1,180 shares	7,788	
Cerence Inc.	Common and Preferred Stock 289 shares	6,540	
Endologix Inc.	Common and Preferred Stock 2,370 shares	3,745	
Spectrum Pharmaceuticals Inc.	Common and Preferred Stock 904 shares	3,291	
Total Small-Mid Cap Growth Asset Class		8,876	5,006
Small-Mid Cap Index Asset Class:			
NT Collective Extended Equity Market Index Fund / Non Lending*	Collective Trust Fund 148,326 units	32,772,597	
Total Small-Mid Cap Index Asset Class		32,772	2,597
Small-Mid Cap Value Asset Class:			
Northern Trust Global Investment Russell 2000 Value Index			
Fund - Non Lending*	Collective Trust Fund 5,422 units	1,793,404	
Northern Trust Global Investments Collective Daily Short Term Investment Fund - Non Lending*	Collective Trust Fund 775,385 units	775,385	
Western Alliance Bancorporation	Common and Preferred Stock 10,541 shares	600,837	
Entegris Inc.	Common and Preferred Stock 11,552 shares	578,640	
Waste Connections Inc.	Common and Preferred Stock 4,895 shares	444,417	
Interest Bearing Cash	Cash and Cash Equivalents 441,470 units	441,470	
Citigroup Inc.	Common and Preferred Stock 5,985 shares	433,896	
FMC Corporation	Common and Preferred Stock 4,088 shares	408,064	
Citizens Financial Group, Inc.	Common and Preferred Stock 9,900 shares	402,039	
Clean Harbors Inc.	Common and Preferred Stock 4,624 shares	396,508	
KAR Auction Services Inc.	Common and Preferred Stock 17,716 shares	386,032	
Kosmos Energy Limited	Common and Preferred Stock 67,020 shares	382,014	
Woodward Inc.	Common and Preferred Stock 3,148 shares	372,849	

Identity of Issue	Description of Investment	Current Value
First Horizon National Corporation	Common and Preferred Stock 4,300 shares	358,822
Popular, Inc.*	Common and Preferred Stock 6,100 shares	358,375
RPT Realty	Common and Preferred Stock 23,740 shares	357,050
Ameris Bancorp	Common and Preferred Stock 8,284 shares	352,401
IAA Spinco Inc.	Common and Preferred Stock 7,403 shares	348,385
Ametek Inc.	Common and Preferred Stock 3,476 shares	346,696
Amphenol Corporation Class A	Common and Preferred Stock 3,076 shares	332,915
Synopsys Inc.	Common and Preferred Stock 2,383 shares	331,714
Cairn Energy PLC	Common and Preferred Stock 60,700 shares	329,692
Bio-Rad Laboratories, Inc. Class A	Common and Preferred Stock 874 shares	323,406
Axis Capital Holdings Limited	Common and Preferred Stock 5,435 shares	323,056
Goodyear Tire & Rubber Company	Common and Preferred Stock 20,500 shares	318,878
Mellanox Technologies Limited	Common and Preferred Stock 2,683 shares	314,394
CNO Financial Group, Inc.	Common and Preferred Stock 17,000 shares	308,210
The Bank of N.T. Butterfield & Son Limited	Common and Preferred Stock 8,159 shares	302,046
UGI Corporation	Common and Preferred Stock 6,599 shares	298,011
RenaissanceRe Holdings Limited	Common and Preferred Stock 1,497 shares	293,442
BWX Technologies Inc.	Common and Preferred Stock 4,593 shares	285,133
BorgWarner Inc.	Common and Preferred Stock 6,488 shares	281,449
Embraer SA	Common and Preferred Stock 14,400 shares	280,656
Helen Trustoy Limited	Common and Preferred Stock 1,479 shares	265,909
Knight-Swift Transportation Holdings Inc.	Common and Preferred Stock 7,364 shares	263,926
Office Depot, Inc.	Common and Preferred Stock 95,600 shares	261,944
EnerSys Inc	Common and Preferred Stock 3,483 shares	260,633
Royal Mail PLC	Common and Preferred Stock 43,100 shares	256,661
LKQ Corporation	Common and Preferred Stock 7,149 shares	255,219
Reliance Steel & Aluminum Company	Common and Preferred Stock 2,073 shares	248,262
Hewlett Packard Enterprise Company	Common and Preferred Stock 15,500 shares	245,830
TCF Financial Corporation	Common and Preferred Stock 5,252 shares	245,794
Amerco	Common and Preferred Stock 640 shares	240,525
Taylor Morrison Home Corporation	Common and Preferred Stock 10,836 shares	236,875
Ingredion Inc.	Common and Preferred Stock 2,530 shares	235,164
Discovery Communications, Inc. Series C	Common and Preferred Stock 7,700 shares	234,773
Dollar Tree Inc.	Common and Preferred Stock 2,464 shares	231,739
Halozyme Therapeutics Inc.	Common and Preferred Stock 13,006 shares	230,596
Apache Corporation	Common and Preferred Stock 9,000 shares	230,310
Quanta Services Inc.	Common and Preferred Stock 5,650 shares	230,012
BMC Holdings Inc.	Common and Preferred Stock 7,786 shares	223,380
Nvent Electric PLC	Common and Preferred Stock 8,726 shares	223,211
Brandywine Realty Trust	Common and Preferred Stock 14,108 shares	222,201
Henry Schein Inc.	Common and Preferred Stock 3,215 shares	214,505
Equitrans Midstream Corporation NPV	Common and Preferred Stock 3,500 shares	212,224
Charles River Laboratories International Inc.	Common and Preferred Stock 1,387 shares	211,878
Catalent Inc.	Common and Preferred Stock 3,748 shares	211,012
Heico Corporation Class A	Common and Preferred Stock 2,313 shares	207,083
Vistra Energy Corporation	Common and Preferred Stock 9,000 shares	206,910
Corning Inc.	Common and Preferred Stock 7,000 shares	203,770

Identity of Issue	Description of Investment	Current Value
Magna International Inc.	Common and Preferred Stock 3,700 shares	202,908
Jacobs Engineering Group Inc.	Common and Preferred Stock 2,200 shares	197,626
Copart Inc.	Common and Preferred Stock 2,161 shares	196,521
STERIS plc	Common and Preferred Stock 1,289 shares	196,469
Hexcel Corporation	Common and Preferred Stock 2,672 shares	195,884
Coherent Inc.	Common and Preferred Stock 1,173 shares	195,129
Arrow Electric Inc.	Common and Preferred Stock 2,300 shares	194,902
Pacwest Bancorp Company	Common and Preferred Stock 5,003 shares	191,465
NRG Energy Inc.	Common and Preferred Stock 4,800 shares	190,800
Fluor Corporation	Common and Preferred Stock 10,100 shares	190,688
Nextier Oilfield Solutions Inc.	Common and Preferred Stock 28,291 shares	189,550
Keysight Technologies Inc.	Common and Preferred Stock 1,841 shares	188,942
Bed Bath & Beyond Inc.	Common and Preferred Stock 10,800 shares	186,840
AXA Equitable Holdings, Inc.	Common and Preferred Stock 7,500 shares	185,850
Centene Corporation	Common and Preferred Stock 2,900 shares	182,323
Cboe Global Markets Inc.	Common and Preferred Stock 1,517 shares	182,040
Bunge Limited	Common and Preferred Stock 3,100 shares	178,405
Teradata Corporation	Common and Preferred Stock 6,463 shares	173,015
Cabot Corporation	Common and Preferred Stock 3,490 shares	165,845
Mid-American Apartment Communities Inc.	Common and Preferred Stock 1,256 shares	165,616
CNH Industrial NV	Common and Preferred Stock 15,000 shares	165,000
Graco Inc.	Common and Preferred Stock 3,130 shares	162,760
Navistar International Corporation	Common and Preferred Stock 5,600 shares	162,064
Adient PLC	Common and Preferred Stock 7,500 shares	159,375
Qorvo, Inc.	Common and Preferred Stock 1,352 shares	157,143
STAG Industrial Inc.	Common and Preferred Stock 4,886 shares	154,251
Huntsman Corporation	Common and Preferred Stock 6,358 shares	153,609
Reinsurance Group of America Inc.	Common and Preferred Stock 931 shares	151,809
IDEX Corporation	Common and Preferred Stock 878 shares	151,016
Tri Pointe Homes, Inc.	Common and Preferred Stock 9,600 shares	149,568
Advance Auto Parts Inc.	Common and Preferred Stock 930 shares	148,949
Healthcare Realty Trust	Common and Preferred Stock 4,442 shares	148,230
ViaSat, Inc.	Common and Preferred Stock 2,020 shares	147,854
News Corporation Class A	Common and Preferred Stock 10,400 shares	147,056
PPL Corporation	Common and Preferred Stock 4,000 shares	143,520
LivaNova PLC	Common and Preferred Stock 1,902 shares	143,468
Parsley Energy Inc. Class A	Common and Preferred Stock 7,523 shares	142,260
Enstar Group Ltd.	Common and Preferred Stock 670 shares	138,596
Astronics Corporation	Common and Preferred Stock 4,934 shares	137,905
Servicemaster Global Holdings Inc.	Common and Preferred Stock 3,558 shares	137,552
Prosperity Bancshares Inc.	Common and Preferred Stock 1,879 shares	135,081
Whiting Petroleum Corporation	Common and Preferred Stock 17,825 shares	130,836
Old Republic International Corporation	Common and Preferred Stock 5,842 shares	130,686
Mscope Holding Company Inc.	Common and Preferred Stock 8,800 shares	124,872
Federal Signal Corporation	Common and Preferred Stock 3,690 shares	119,003
Materion Corporation	Common and Preferred Stock 1,967 shares	116,938
EQT Corporation	Common and Preferred Stock 10,466 shares	114,079

Postarbeletic Corporation	Identity of Issue	Description of Investment	Current Value
Discover Financial Services Common and Preferred Stock 1,300 shares 110,266	Potlatchdeltic Corporation	Common and Preferred Stock 2,568 shares	111,117
Remained Inc. Common and Preferred Stock 2,970 shares 103,563 Deckers Outdoor Conporation Common and Preferred Stock 37 shares 105,400 Marked Copporation Holding Company Common and Preferred Stock 50 shares 105,172 American Eagle Outlitten Inc. Common and Preferred Stock 50 shares 105,172 American Eagle Outlitten Inc. Common and Preferred Stock 50 shares 108,268 Aware Inc. Common and Preferred Stock 50 shares 108,268 Aware Inc. Common and Preferred Stock 2,300 shares 105,102 The Americand Holding Corporation Class A Common and Preferred Stock 1,205 shares 105,006 Toxas Capital Istanchares Inc. Common and Preferred Stock 1,212 shares 105,006 Toxas Capital Istanchares Inc. Common and Preferred Stock 1,205 shares 105,006 Toxas Capital Istanchares Inc. Common and Preferred Stock 1,205 shares 105,006 Toxas Capital Istanchares Inc. Common and Preferred Stock 1,205 shares 104,410 Cypress Semiconductor Corporation Common and Preferred Stock 1,205 shares 104,410 Cypress Semiconductor Corporation Common and Preferred Stock 2,405 shares 104,410 Sibi- Techne Corporation Common and Preferred Stock 2,405 shares 104,410 Sibi- Techne Corporation Common and Preferred Stock 2,758 shares 105,004 Apogee Enterprises, Inc. Common and Preferred Stock 2,758 shares 105,004 Apogee Enterprises, Inc. Common and Preferred Stock 2,758 shares 106,004 Apogee Enterprises, Inc. Common and Preferred Stock 2,100 shares 17,176 Colony Capital Inc. Class A Common and Preferred Stock 2,100 shares 17,100 Colony Capital Inc. Class A Common and Preferred Stock 2,100 shares 17,100 Colony Capital Inc. Class A Common and Preferred Stock 2,100 shares 17,100 Colony Capital Inc. Class A Common and Preferred Stock 2,100 shares 17,100 Colony Capital Inc. Class A Common and Preferred Stock 2,100 shares 17,100 Colony Capital Inc. Class A Common and Preferred Stock 3,000 shares 17,100 Colony Capital Inc. Class A Common and Preferred Stock 2,100 shares 17,100 Colony Capital Inc. Class A Common and Preferred Stock 2,100 shares 17,100 Colo	Fabrinet	Common and Preferred Stock 1,702 shares	110,358
Deckers Outdoor Corporation Common and Preferred Stock 637 shares 107,584	Discover Financial Services	Common and Preferred Stock 1,300 shares	110,266
Tendyme Inc.	Kennametal Inc.	Common and Preferred Stock 2,970 shares	109,563
Markel Corporation Holding Company Common and Preferred Stock 92 shares 99,887	Deckers Outdoor Corporation	Common and Preferred Stock 637 shares	107,564
American Eagle Outfitters Inc. Common and Preferred Stock 6,795 shares 92,888 Innospee Inc. Common and Preferred Stock 950 shares 92,688 Avent Inc. Common and Preferred Stock 2,200 shares 96,191 The Ameritance Holding Corporation Class A Common and Preferred Stock 1,267 shares 96,191 The Ameritance Holding Corporation Common and Preferred Stock 1,591 shares 95,006 The Ameritance Holding Corporation Common and Preferred Stock 1,666 shares 94,579 Sallie Mae Corporation Common and Preferred Stock 1,660 shares 94,446 Cypress Semiconductor Corporation Common and Preferred Stock 1,961 shares 94,446 Cypress Semiconductor Corporation Common and Preferred Stock 3,961 shares 91,975 Sallie Mae Corporation Common and Preferred Stock 4,961 shares 91,975 PDC Energy Inc. Common and Preferred Stock 4,475 shares 90,941 Apoque Enterprises Inc. Common and Preferred Stock 3,475 shares 90,941 Apoque Enterprises Inc. Common and Preferred Stock 2,400 shares 91,976 Thiff third Bancorp Common and Preferred Stock 2,400 shares 91,976 Third Shares 91,976 Third Shares 91,976 The Shares Shares 91,976 The Shares Shares 91,976 Third Shares	Teradyne Inc.	Common and Preferred Stock 1,547 shares	105,490
Innospec Inc.	Markel Corporation Holding Company	Common and Preferred Stock 92 shares	105,172
Annear Inc. Albaay International Corporation Class A Common and Preferred Stock 1,269 shares 97,612 Albaay International Corporation Class A Common and Preferred Stock 1,912 shares 95,026 Texas Capital Baneshares Inc. Common and Preferred Stock 1,966 shares 94,457 Sallis Mac Corporation Common and Preferred Stock 1,666 shares 94,466 Cypress Semiconductor Corporation Common and Preferred Stock 1,912 shares 92,410 Bio-Techne Corporation Common and Preferred Stock 4,19 shares 91,975 PIDEC Inergy Inc. Common and Preferred Stock 4,19 shares 99,941 Apogee Enterprises, Inc. Common and Preferred Stock 2,758 shares 99,941 Apogee Enterprises, Inc. Common and Preferred Stock 2,758 shares 99,941 Apogee Enterprises, Inc. Common and Preferred Stock 2,758 shares 99,941 Apogee Enterprises, Inc. Common and Preferred Stock 2,400 shares 77,776 Interpublic Group Companies Inc. Common and Preferred Stock 3,100 shares 71,1610 State Street Corporation Common and Preferred Stock 3,000 shares 71,1610 State Street Corporation Common and Preferred Stock 4,800 units 70,300 Cloolay Capital Inc. Class A Common and Preferred Stock 4,800 units 70,300 Eticsson, Inc. Common and Preferred Stock 2,000 shares 70,240 Eticsson, Inc. Common and Preferred Stock 2,100 shares 70,240 Eticsson, Inc. Common and Preferred Stock 4,800 units 70,300 Eticsson, Inc. Common and Preferred Stock 4,800 units 70,300 Eticsson, Inc. Common and Preferred Stock 4,800 shares 70,240 Eticsson, Inc. Common and Preferred Stock 4,800 shares 70,240 Eticsson, Inc. Common and Preferred Stock 4,800 shares 70,240 Eticsson, Inc. Common and Preferred Stock 4,800 shares 70,240 Eticsson, Inc. Common and Preferred Stock 4,800 shares 70,240 Eticsson, Inc. Common and Preferred Stock 4,800 shares 70,240 Eticsson, Inc. Common and Preferred Stock 4,800 shares 70,240 Eticsson, Inc. Common and Preferred Stock 4,800 shares 70,240 Eticsson, Inc. Common and Preferred Stock 4,800 shares 70,240 Eticsson, Inc. Eticsson, Inc. Common and Preferred Stock 1,900 shares 70,240	American Eagle Outfitters Inc.	Common and Preferred Stock 6,795 shares	99,887
Albany International Corporation Class A Common and Preferred Stock 1,267 shares 95,026 TD Ameritrade Holding Corporation Common and Preferred Stock 1,366 shares 94,579 Sallie Mae Corporation Common and Preferred Stock 1,660 shares 94,446 Cypress Semiconductor Corporation Common and Preferred Stock 3,661 shares 92,410 Sibo-Techne Corporation Common and Preferred Stock 3,961 shares 92,410 Sibo-Techne Corporation Common and Preferred Stock 3,961 shares 92,410 Sibo-Techne Corporation Common and Preferred Stock 3,975 shares 90,941 Apogee Enterprises, Inc. Common and Preferred Stock 2,785 shares 80,035 Sifth Third Bancorp Common and Preferred Stock 2,785 shares 80,035 Sifth Third Bancorp Common and Preferred Stock 2,785 shares 71,1610 State Street Corporation Common and Preferred Stock 3,100 shares 71,1610 State Street Corporation Common and Preferred Stock 900 shares 71,190 Colony Capital Inc. Class A Common and Preferred Stock 900 shares 71,190 Colony Capital Inc. Class A Common and Preferred Stock 4,800 units 70,240 Euronet Wurdhvide Inc. Common and Preferred Stock 4,800 units 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,800 shares 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,800 shares 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,800 shares 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,800 shares 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,800 shares 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,800 shares 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,800 shares 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,800 shares 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,800 shares 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,800 shares 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,800 shares 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,800 shares 80,957 Avis Budget Group Inc. Common and Preferred Stock 4,8	Innospec Inc.	Common and Preferred Stock 950 shares	98,268
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Franks International NV Common and Preferred Stock 10,500 shares 54,285 The Geo Group, Inc. Common and Preferred Stock 3,250 shares 53,983 Halliburton Company Common and Preferred Stock 2,200 shares 53,834 National Oilwell Varco, Inc. Common and Preferred Stock 2,100 shares 52,605 Harley/Davidson Motor Company Common and Preferred Stock 1,400 shares 52,066 Lazard Limited Class A Common and Preferred Stock 1,300 shares 51,948 Cenovus Energy Inc. Common and Preferred Stock 5,100 shares 51,765 Murphy Oil Corporation Common and Preferred Stock 1,900 shares 50,920 Livent Corporation Common and Preferred Stock 5,742 shares 49,094 Alleghany Corporation Common and Preferred Stock 60 shares 47,974 Stealthgas Inc. Common and Preferred Stock 13,470 shares 46,202 Boise Cascade Company Common and Preferred Stock 1,049 shares 38,320 Keycorp Common and Preferred Stock 1,049 shares 32,384 Hess Corporation LLC Common and Preferred Stock 400 shares 26,724 Superior Energy Services Inc. Common and Preferred Stock 2,370 shares 11,874 and Small-Mid Cap Value Asset Class 31,014,600	Zimmer Biomet Holdings Inc	Common and Preferred Stock 400 shares	59,872
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Harley/Davidson Motor Company Common and Preferred Stock 1,400 shares 52,066 Lazard Limited Class A Common and Preferred Stock 1,300 shares 51,948 Cenovus Energy Inc. Common and Preferred Stock 5,100 shares 51,765 Murphy Oil Corporation Common and Preferred Stock 1,900 shares 50,920 Livent Corporation Common and Preferred Stock 5,742 shares 49,094 Alleghany Corporation Common and Preferred Stock 60 shares 47,974 Stealthgas Inc. Common and Preferred Stock 13,470 shares 38,320 Keycorp Common and Preferred Stock 1,049 shares 38,320 Keycorp Common and Preferred Stock 1,600 shares 26,724 Superior Energy Services Inc. Common and Preferred Stock 2,370 shares 11,874 tal Small-Mid Cap Value Asset Class 31,014,6	Halliburton Company	Common and Preferred Stock 2,200 shares	53,834
Lazard Limited Class A Common and Preferred Stock 1,300 shares Cenovus Energy Inc. Common and Preferred Stock 5,100 shares 51,765 Murphy Oil Corporation Common and Preferred Stock 1,900 shares 50,920 Livent Corporation Common and Preferred Stock 5,742 shares 49,094 Alleghany Corporation Common and Preferred Stock 60 shares 47,974 Stealthgas Inc. Common and Preferred Stock 13,470 shares Boise Cascade Company Common and Preferred Stock 1,049 shares 38,320 Keycorp Common and Preferred Stock 1,049 shares 32,384 Hess Corporation LLC Common and Preferred Stock 400 shares 26,724 Superior Energy Services Inc. Common and Preferred Stock 2,370 shares 11,874 atal Small-Mid Cap Value Asset Class	National Oilwell Varco, Inc.	Common and Preferred Stock 2,100 shares	52,605
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Livent Corporation Common and Preferred Stock 5,742 shares 49,094 Alleghany Corporation Common and Preferred Stock 60 shares 47,974 Stealthgas Inc. Common and Preferred Stock 13,470 shares 46,202 Boise Cascade Company Common and Preferred Stock 1,049 shares 38,320 Keycorp Common and Preferred Stock 1,600 shares 32,384 Hess Corporation LLC Common and Preferred Stock 400 shares 26,724 Superior Energy Services Inc. Common and Preferred Stock 2,370 shares 11,874 tal Small-Mid Cap Value Asset Class 31,014,6	Cenovus Energy Inc.	Common and Preferred Stock 5,100 shares	51,765
Alleghany Corporation Common and Preferred Stock 60 shares 47,974 Stealthgas Inc. Common and Preferred Stock 13,470 shares 46,202 Boise Cascade Company Common and Preferred Stock 1,049 shares 38,320 Keycorp Common and Preferred Stock 1,600 shares 32,384 Hess Corporation LLC Common and Preferred Stock 400 shares 26,724 Superior Energy Services Inc. Common and Preferred Stock 2,370 shares 11,874 tal Small-Mid Cap Value Asset Class 31,014,6	Murphy Oil Corporation	Common and Preferred Stock 1,900 shares	50,920
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Keycorp Common and Preferred Stock 1,600 shares 32,384 Hess Corporation LLC Common and Preferred Stock 400 shares 26,724 Superior Energy Services Inc. Common and Preferred Stock 2,370 shares 11,874 tal Small-Mid Cap Value Asset Class 31,014,6	Stealthgas Inc.	Common and Preferred Stock 13,470 shares	46,202
Hess Corporation LLC Superior Energy Services Inc. Common and Preferred Stock 400 shares 26,724 Superior Energy Services Inc. Common and Preferred Stock 2,370 shares 11,874 tal Small-Mid Cap Value Asset Class 31,014,6	Boise Cascade Company	Common and Preferred Stock 1,049 shares	38,320
Superior Energy Services Inc. Common and Preferred Stock 2,370 shares 11,874 tal Small-Mid Cap Value Asset Class 31,014,6	Keycorp	Common and Preferred Stock 1,600 shares	32,384
tal Small-Mid Cap Value Asset Class 31,014,6	Hess Corporation LLC	Common and Preferred Stock 400 shares	26,724
	Superior Energy Services Inc.	Common and Preferred Stock 2,370 shares	11,874
ites Receivable from Participants* Interest Rate 4.25% - 9.25% 15,387,570	tal Small-Mid Cap Value Asset Class		31,014,6
ntes Receivable from Participants* Interest Rate 4.25% - 9.25% 15,387,570			
	otes Receivable from Participants*	Interest Rate 4.25% - 9.25%	15,387,570

Identity of Issue	Description of Investment	Current Value	
			15,387,570
Other			
ML Sweep Account	Cash and Cash Equivalents 24,938 units	24,938	
Northern Trust Global Investments Collective Daily Short Term Investment Fund - Non Lending*	Collective Trust Fund 8,482 units	8,482	
			33,420
Grand Total		\$	542,649,268

^{*} 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 Exchange Act of 1934, the trustees (or other persons who administer the employee benefit plan) have duly caused this annual report to be signed on its behalf by the undersigned hereunto duly authorized.

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

Date: June 16, 2020 By: /s/ PETER H. GRIFFITH

Peter H. Griffith
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 16, 2020, 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, 2019.

/s/ ERNST & YOUNG LLP

Los Angeles, California June 16, 2020