Form 5500

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Annual Return/Report of Employee Benefit Plan

This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code).

▶ **Complete all entries in accordance with the instructions to the Form 5500.**

OMB Nos. 1210-0110
1210-0089

2022

This Form is Open to Public Inspection

Part I Annual Report Identification Information

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A This return/report is for:
- [ ] a multiemployer plan
- [ ] a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.)
- [X] a single-employer plan
- [ ] a DFE (specify) ____

B This return/report is:
- [ ] the first return/report
- [ ] the final return/report
- [ ] an amended return/report
- [ ] a short plan year return/report (less than 12 months)

C If the plan is a collectively-bargained plan, check here. . . . . ▶ [ ]

D Check box if filing under:
- [X] Form 5558
- [ ] automatic extension
- [ ] the DFVC program
- [ ] special extension (enter description)

E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here. . . . . ▶ [ ]

Part II Basic Plan Information—enter all requested information

1a Name of plan
AMGEN RETIREMENT AND SAVINGS PLAN

1b Three-digit plan number (PN) ▶ 001

1c Effective date of plan 04/01/1985

2a Plan sponsor's name (employer, if for a single-employer plan)
Mailing address (include room, apt., suite no. and street, or P.O. Box)
City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions)
AMGEN INC.

ONE AMGEN CENTER DRIVE
MS 21-2-A
THOUSAND OAKS, CA 91320-0000

2b Employer Identification Number (EIN) 95-3540776

2c Plan Sponsor's telephone number 805-447-1000

2d Business code (see instructions) 325410

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	10/05/2023	VINCE BRIGANDI
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

3a	Plan administrator's name and address [X] Same as Plan Sponsor	**3b**	Administrator's EIN
		3c	Administrator's telephone number
4	If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report:	**4b**	EIN
a	Sponsor's name	**4d**	PN
c	Plan Name		
5	Total number of participants at the beginning of the plan year	**5**	18851
6	Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines **6a(1), 6a(2), 6b, 6c,** and **6d**).		
a(1)	Total number of active participants at the beginning of the plan year	**6a(1)**	11445
a(2)	Total number of active participants at the end of the plan year	**6a(2)**	12714
b	Retired or separated participants receiving benefits	**6b**	555
c	Other retired or separated participants entitled to future benefits	**6c**	6939
d	Subtotal. Add lines **6a(2)**, **6b**, and **6c**	**6d**	20208
e	Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.	**6e**	52
f	Total. Add lines **6d** and **6e**.	**6f**	20260
g	Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	**6g**	20207
h	Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	**6h**	319
7	Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	**7**	

8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:

2E 2F 2G 2J 2K 2R 2S 2T 3H 2O

b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:

9a Plan funding arrangement (check all that apply)

(1)	[X]	Insurance
(2)	[ ]	Code section 412(e)(3) insurance contracts
(3)	[X]	Trust
(4)	[ ]	General assets of the sponsor

9b Plan benefit arrangement (check all that apply)

(1)	[X]	Insurance
(2)	[ ]	Code section 412(e)(3) insurance contracts
(3)	[X]	Trust
(4)	[ ]	General assets of the sponsor

10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

a Pension Schedules

(1)	[X]	**R** (Retirement Plan Information)
(2)	[ ]	**MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
(3)	[ ]	**SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary

b General Schedules

(1)	[X]		**H** (Financial Information)
(2)	[ ]		**I** (Financial Information – Small Plan)
(3)	[X]	5	**A** (Insurance Information)
(4)	[X]		**C** (Service Provider Information)
(5)	[X]		**D** (DFE/Participating Plan Information)
(6)	[ ]		**G** (Financial Transaction Schedules)

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ..... ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ..... ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2022 Form M-1 annual report. If the plan was not required to file the 2022 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code_____

SCHEDULE A (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Insurance Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).

▶ **File as an attachment to Form 5500.**

▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).

OMB No. 1210-0110

2022

This Form is Open to Public Inspection

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan
AMGEN RETIREMENT AND SAVINGS PLAN

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500
AMGEN INC.

D Employer Identification Number (EIN)
95-3540776

Part I **Information Concerning Insurance Contract Coverage, Fees, and Commissions** Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.

1 Coverage Information:

(a) Name of insurance carrier
METROPOLITAN LIFE INSURANCE COMPANY

(b) EIN	(c) NAIC code	(d) Contract or identification number	(e) Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	(g) To
13-5581829	65978	GAC 32741	0	01/01/2022	12/31/2022

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.

(a) Total amount of commissions paid	(b) Total amount of fees paid

3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4	Current value of plan's interest under this contract in the general account at year end	4	
5	Current value of plan's interest under this contract in separate accounts at year end	5	

6 Contracts With Allocated Funds:

a State the basis of premium rates ▶

b	Premiums paid to carrier	6b	
c	Premiums due but unpaid at the end of the year	6c	
d	If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount. Specify nature of costs ▶	6d	

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity (3) ☐ other (specify) ▶

f If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ▶ ☐

7 Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)

a Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee (3) ☒ guaranteed investment (4) ☐ other ▶

b	Balance at the end of the previous year			7b	181895475
c	Additions: (1) Contributions deposited during the year	7c(1)			
	(2) Dividends and credits	7c(2)			
	(3) Interest credited during the year	7c(3)	2059943		
	(4) Transferred from separate account	7c(4)			
	(5) Other (specify below) ▶	7c(5)			
	(6) Total additions			7c(6)	2059943
d	Total of balance and additions (add lines **7b** and **7c(6)**)			7d	183955418
e	Deductions:				
	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)	52866000		
	(2) Administration charge made by carrier	7e(2)			
	(3) Transferred to separate account	7e(3)			
	(4) Other (specify below) ▶	7e(4)			
	(5) Total deductions			7e(5)	52866000
f	Balance at the end of the current year (subtract line **7e(5)** from line **7d**)			7f	131089418

Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

- **a** ☐ Health (other than dental or vision)
- **b** ☐ Dental
- **c** ☐ Vision
- **d** ☐ Life insurance
- **e** ☐ Temporary disability (accident and sickness)
- **f** ☐ Long-term disability
- **g** ☐ Supplemental unemployment
- **h** ☐ Prescription drug
- **i** ☐ Stop loss (large deductible)
- **j** ☐ HMO contract
- **k** ☐ PPO contract
- **l** ☐ Indemnity contract
- **m** ☐ Other (specify) ▶

9 Experience-rated contracts:				
a Premiums: (1) Amount received	**9a(1)**			
(2) Increase (decrease) in amount due but unpaid	**9a(2)**			
(3) Increase (decrease) in unearned premium reserve	**9a(3)**			
(4) Earned (**(1)** + **(2)** - **(3)**)			**9a(4)**	0
b Benefit charges (1) Claims paid	**9b(1)**			
(2) Increase (decrease) in claim reserves	**9b(2)**			
(3) Incurred claims (add **(1)** and **(2)**)			**9b(3)**	0
(4) Claims charged			**9b(4)**	
c Remainder of premium: (1) Retention charges (on an accrual basis) --				
(A) Commissions	**9c(1)(A)**			
(B) Administrative service or other fees	**9c(1)(B)**			
(C) Other specific acquisition costs	**9c(1)(C)**			
(D) Other expenses	**9c(1)(D)**			
(E) Taxes	**9c(1)(E)**			
(F) Charges for risks or other contingencies	**9c(1)(F)**			
(G) Other retention charges	**9c(1)(G)**			
(H) Total retention			**9c(1)(H)**	0
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.)			**9c(2)**	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement			**9d(1)**	
(2) Claim reserves			**9d(2)**	
(3) Other reserves			**9d(3)**	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line **9c(2)**.)			**9e**	
10 Nonexperience-rated contracts:				
a Total premiums or subscription charges paid to carrier			**10a**	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount.			**10b**	

Specify nature of costs.

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

SCHEDULE A (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Insurance Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).

▶ **File as an attachment to Form 5500.**

▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).

OMB No. 1210-0110

2022

This Form is Open to Public Inspection

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan
AMGEN RETIREMENT AND SAVINGS PLAN

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500
AMGEN INC.

D Employer Identification Number (EIN)
95-3540776

Part I **Information Concerning Insurance Contract Coverage, Fees, and Commissions** Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.

1 Coverage Information:

(a) Name of insurance carrier
THE PRUDENTIAL INSURANCE COMPANY OF AMERICA

(b) EIN	(c) NAIC code	(d) Contract or identification number	(e) Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	(g) To
22-1211670	68241	063654	0	01/01/2022	12/31/2022

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.

(a) Total amount of commissions paid	(b) Total amount of fees paid

3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4	Current value of plan's interest under this contract in the general account at year end	4	
5	Current value of plan's interest under this contract in separate accounts at year end	5	

6 Contracts With Allocated Funds:

a State the basis of premium rates ▶

b	Premiums paid to carrier	6b	
c	Premiums due but unpaid at the end of the year	6c	
d	If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount. Specify nature of costs ▶	6d	

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity (3) ☐ other (specify) ▶

f If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ▶ ☐

7 Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)

a Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee (3) ☒ guaranteed investment (4) ☐ other ▶

b	Balance at the end of the previous year			7b	213314290
c	Additions: (1) Contributions deposited during the year	7c(1)			
	(2) Dividends and credits	7c(2)			
	(3) Interest credited during the year	7c(3)	2433345		
	(4) Transferred from separate account	7c(4)			
	(5) Other (specify below) ▶	7c(5)			
	(6) Total additions			7c(6)	2433345
d	Total of balance and additions (add lines **7b** and **7c(6)**)			7d	215747635
e	Deductions:				
	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)			
	(2) Administration charge made by carrier	7e(2)			
	(3) Transferred to separate account	7e(3)			
	(4) Other (specify below) ▶ CASH	7e(4)	84758000		
	(5) Total deductions			7e(5)	84758000
f	Balance at the end of the current year (subtract line **7e(5)** from line **7d**)			7f	130989635

Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

- **a** ☐ Health (other than dental or vision)
- **b** ☐ Dental
- **c** ☐ Vision
- **d** ☐ Life insurance
- **e** ☐ Temporary disability (accident and sickness)
- **f** ☐ Long-term disability
- **g** ☐ Supplemental unemployment
- **h** ☐ Prescription drug
- **i** ☐ Stop loss (large deductible)
- **j** ☐ HMO contract
- **k** ☐ PPO contract
- **l** ☐ Indemnity contract
- **m** ☐ Other (specify) ▶

9 Experience-rated contracts:				
a Premiums: (1) Amount received	**9a(1)**			
(2) Increase (decrease) in amount due but unpaid	**9a(2)**			
(3) Increase (decrease) in unearned premium reserve	**9a(3)**			
(4) Earned (**(1)** + **(2)** - **(3)**)			**9a(4)**	0
b Benefit charges (1) Claims paid	**9b(1)**			
(2) Increase (decrease) in claim reserves	**9b(2)**			
(3) Incurred claims (add **(1)** and **(2)**)			**9b(3)**	0
(4) Claims charged			**9b(4)**	
c Remainder of premium: (1) Retention charges (on an accrual basis) --				
(A) Commissions	**9c(1)(A)**			
(B) Administrative service or other fees	**9c(1)(B)**			
(C) Other specific acquisition costs	**9c(1)(C)**			
(D) Other expenses	**9c(1)(D)**			
(E) Taxes	**9c(1)(E)**			
(F) Charges for risks or other contingencies	**9c(1)(F)**			
(G) Other retention charges	**9c(1)(G)**			
(H) Total retention			**9c(1)(H)**	0
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.)			**9c(2)**	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement			**9d(1)**	
(2) Claim reserves			**9d(2)**	
(3) Other reserves			**9d(3)**	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line **9c(2)**.)			**9e**	
10 Nonexperience-rated contracts:				
a Total premiums or subscription charges paid to carrier			**10a**	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount.			**10b**	

Specify nature of costs.

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

SCHEDULE A (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Insurance Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).

▶ **File as an attachment to Form 5500.**

▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).

OMB No. 1210-0110

2022

This Form is Open to Public Inspection

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan
AMGEN RETIREMENT AND SAVINGS PLAN

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500
AMGEN INC.

D Employer Identification Number (EIN)
95-3540776

Part I **Information Concerning Insurance Contract Coverage, Fees, and Commissions** Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.

1 Coverage Information:

(a) Name of insurance carrier
TRANSAMERICA LIFE INSURANCE COMPANY

(b) EIN	(c) NAIC code	(d) Contract or identification number	(e) Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	(g) To
39-0989781	86231	MDA00915TR	0	01/01/2022	12/31/2022

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.

(a) Total amount of commissions paid	(b) Total amount of fees paid

3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4	Current value of plan's interest under this contract in the general account at year end	4	
5	Current value of plan's interest under this contract in separate accounts at year end	5	

6 Contracts With Allocated Funds:

a State the basis of premium rates ▶

b	Premiums paid to carrier	6b	
c	Premiums due but unpaid at the end of the year	6c	
d	If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount. Specify nature of costs ▶	6d	

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity (3) ☐ other (specify) ▶

f If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ▶ ☐

7 Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)

a Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee (3) ☒ guaranteed investment (4) ☐ other ▶

b	Balance at the end of the previous year			7b	158641964
c	Additions: (1) Contributions deposited during the year	7c(1)			
	(2) Dividends and credits	7c(2)			
	(3) Interest credited during the year	7c(3)	2417006		
	(4) Transferred from separate account	7c(4)			
	(5) Other (specify below) ▶	7c(5)			
	(6) Total additions			7c(6)	2417006
d	Total of balance and additions (add lines **7b** and **7c(6)**)			7d	161058970
e	Deductions:				
	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)	30787000		
	(2) Administration charge made by carrier	7e(2)			
	(3) Transferred to separate account	7e(3)			
	(4) Other (specify below) ▶	7e(4)			
	(5) Total deductions			7e(5)	30787000
f	Balance at the end of the current year (subtract line **7e(5)** from line **7d**)			7f	130271970

Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

- **a** ☐ Health (other than dental or vision)
- **b** ☐ Dental
- **c** ☐ Vision
- **d** ☐ Life insurance
- **e** ☐ Temporary disability (accident and sickness)
- **f** ☐ Long-term disability
- **g** ☐ Supplemental unemployment
- **h** ☐ Prescription drug
- **i** ☐ Stop loss (large deductible)
- **j** ☐ HMO contract
- **k** ☐ PPO contract
- **l** ☐ Indemnity contract
- **m** ☐ Other (specify) ▶

9 Experience-rated contracts:				
a Premiums: (1) Amount received	**9a(1)**			
(2) Increase (decrease) in amount due but unpaid	**9a(2)**			
(3) Increase (decrease) in unearned premium reserve	**9a(3)**			
(4) Earned (**(1)** + **(2)** - **(3)**)			**9a(4)**	0
b Benefit charges (1) Claims paid	**9b(1)**			
(2) Increase (decrease) in claim reserves	**9b(2)**			
(3) Incurred claims (add **(1)** and **(2)**)			**9b(3)**	0
(4) Claims charged			**9b(4)**	
c Remainder of premium: (1) Retention charges (on an accrual basis) --				
(A) Commissions	**9c(1)(A)**			
(B) Administrative service or other fees	**9c(1)(B)**			
(C) Other specific acquisition costs	**9c(1)(C)**			
(D) Other expenses	**9c(1)(D)**			
(E) Taxes	**9c(1)(E)**			
(F) Charges for risks or other contingencies	**9c(1)(F)**			
(G) Other retention charges	**9c(1)(G)**			
(H) Total retention			**9c(1)(H)**	0
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.)			**9c(2)**	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement			**9d(1)**	
(2) Claim reserves			**9d(2)**	
(3) Other reserves			**9d(3)**	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line **9c(2)**.)			**9e**	
10 Nonexperience-rated contracts:				
a Total premiums or subscription charges paid to carrier			**10a**	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount.			**10b**	

Specify nature of costs.

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

SCHEDULE A (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Insurance Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).

▶ **File as an attachment to Form 5500.**

▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).

OMB No. 1210-0110

2022

This Form is Open to Public Inspection

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan
AMGEN RETIREMENT AND SAVINGS PLAN

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500
AMGEN INC.

D Employer Identification Number (EIN)
95-3540776

Part I **Information Concerning Insurance Contract Coverage, Fees, and Commissions** Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.

1 Coverage Information:

(a) Name of insurance carrier
AMERICAN GENERAL LIFE INSURANCE COMPANY

(b) EIN	(c) NAIC code	(d) Contract or identification number	(e) Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	(g) To
25-0598210	60488	1648874	0	01/01/2022	12/31/2022

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.

(a) Total amount of commissions paid	(b) Total amount of fees paid

3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4	Current value of plan's interest under this contract in the general account at year end	4	
5	Current value of plan's interest under this contract in separate accounts at year end	5	

6 Contracts With Allocated Funds:

a State the basis of premium rates ▶

b	Premiums paid to carrier	6b	
c	Premiums due but unpaid at the end of the year	6c	
d	If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount. Specify nature of costs ▶	6d	

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity (3) ☐ other (specify) ▶

f If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ▶ ☐

7 Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)

a Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee (3) ☒ guaranteed investment (4) ☐ other ▶

b	Balance at the end of the previous year			7b	161078666
c	Additions: (1) Contributions deposited during the year	7c(1)			
	(2) Dividends and credits	7c(2)			
	(3) Interest credited during the year	7c(3)	2400544		
	(4) Transferred from separate account	7c(4)			
	(5) Other (specify below) ▶	7c(5)			
	(6) Total additions			7c(6)	2400544
d	Total of balance and additions (add lines **7b** and **7c(6)**)			7d	163479210
e	Deductions:				
	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)			
	(2) Administration charge made by carrier	7e(2)			
	(3) Transferred to separate account	7e(3)			
	(4) Other (specify below) ▶ BOOK VALUE ADJUSTMENTS	7e(4)	33745000		
	(5) Total deductions			7e(5)	33745000
f	Balance at the end of the current year (subtract line **7e(5)** from line **7d**)			7f	129734210

Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

- **a** ☐ Health (other than dental or vision)
- **b** ☐ Dental
- **c** ☐ Vision
- **d** ☐ Life insurance
- **e** ☐ Temporary disability (accident and sickness)
- **f** ☐ Long-term disability
- **g** ☐ Supplemental unemployment
- **h** ☐ Prescription drug
- **i** ☐ Stop loss (large deductible)
- **j** ☐ HMO contract
- **k** ☐ PPO contract
- **l** ☐ Indemnity contract
- **m** ☐ Other (specify) ▶

9 Experience-rated contracts:				
a Premiums: (1) Amount received	**9a(1)**			
(2) Increase (decrease) in amount due but unpaid	**9a(2)**			
(3) Increase (decrease) in unearned premium reserve	**9a(3)**			
(4) Earned (**(1)** + **(2)** - **(3)**)			**9a(4)**	0
b Benefit charges (1) Claims paid	**9b(1)**			
(2) Increase (decrease) in claim reserves	**9b(2)**			
(3) Incurred claims (add **(1)** and **(2)**)			**9b(3)**	0
(4) Claims charged			**9b(4)**	
c Remainder of premium: (1) Retention charges (on an accrual basis) --				
(A) Commissions	**9c(1)(A)**			
(B) Administrative service or other fees	**9c(1)(B)**			
(C) Other specific acquisition costs	**9c(1)(C)**			
(D) Other expenses	**9c(1)(D)**			
(E) Taxes	**9c(1)(E)**			
(F) Charges for risks or other contingencies	**9c(1)(F)**			
(G) Other retention charges	**9c(1)(G)**			
(H) Total retention			**9c(1)(H)**	0
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.)			**9c(2)**	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement			**9d(1)**	
(2) Claim reserves			**9d(2)**	
(3) Other reserves			**9d(3)**	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line **9c(2)**.)			**9e**	
10 Nonexperience-rated contracts:				
a Total premiums or subscription charges paid to carrier			**10a**	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount.			**10b**	

Specify nature of costs.

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

SCHEDULE A (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Insurance Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).

▶ **File as an attachment to Form 5500.**

▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).

OMB No. 1210-0110

2022

This Form is Open to Public Inspection

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan
AMGEN RETIREMENT AND SAVINGS PLAN

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500
AMGEN INC.

D Employer Identification Number (EIN)
95-3540776

Part I **Information Concerning Insurance Contract Coverage, Fees, and Commissions** Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.

1 Coverage Information:

(a) Name of insurance carrier
MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY

(b) EIN	**(c)** NAIC code	**(d)** Contract or identification number	**(e)** Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	**(g)** To
04-1590850	65935	30115	0	01/01/2022	12/31/2022

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.

(a) Total amount of commissions paid	**(b)** Total amount of fees paid

3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4	Current value of plan's interest under this contract in the general account at year end	4	
5	Current value of plan's interest under this contract in separate accounts at year end	5	

6 Contracts With Allocated Funds:

a State the basis of premium rates ▶

b	Premiums paid to carrier	6b	
c	Premiums due but unpaid at the end of the year	6c	
d	If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount. Specify nature of costs ▶	6d	

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity (3) ☐ other (specify) ▶

f If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ▶ ☐

7 Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)

a Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee (3) ☐ guaranteed investment (4) ☒ other ▶ GROUP ANNUITY

b	Balance at the end of the previous year			7b	0
c	Additions: (1) Contributions deposited during the year	7c(1)	143000000		
	(2) Dividends and credits	7c(2)			
	(3) Interest credited during the year	7c(3)	1690862		
	(4) Transferred from separate account	7c(4)			
	(5) Other (specify below) ▶	7c(5)			
	(6) Total additions			7c(6)	144690862
d	Total of balance and additions (add lines **7b** and **7c(6)**)			7d	144690862
e	Deductions:				
	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)	14844000		
	(2) Administration charge made by carrier	7e(2)			
	(3) Transferred to separate account	7e(3)			
	(4) Other (specify below) ▶	7e(4)			
	(5) Total deductions			7e(5)	14844000
f	Balance at the end of the current year (subtract line **7e(5)** from line **7d**)			7f	129846862

Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

- **a** ☐ Health (other than dental or vision)
- **b** ☐ Dental
- **c** ☐ Vision
- **d** ☐ Life insurance
- **e** ☐ Temporary disability (accident and sickness)
- **f** ☐ Long-term disability
- **g** ☐ Supplemental unemployment
- **h** ☐ Prescription drug
- **i** ☐ Stop loss (large deductible)
- **j** ☐ HMO contract
- **k** ☐ PPO contract
- **l** ☐ Indemnity contract
- **m** ☐ Other (specify) ▶

9 Experience-rated contracts:				
a Premiums: (1) Amount received	**9a(1)**			
(2) Increase (decrease) in amount due but unpaid	**9a(2)**			
(3) Increase (decrease) in unearned premium reserve	**9a(3)**			
(4) Earned (**(1)** + **(2)** - **(3)**)			**9a(4)**	0
b Benefit charges (1) Claims paid	**9b(1)**			
(2) Increase (decrease) in claim reserves	**9b(2)**			
(3) Incurred claims (add **(1)** and **(2)**)			**9b(3)**	0
(4) Claims charged			**9b(4)**	
c Remainder of premium: (1) Retention charges (on an accrual basis) --				
(A) Commissions	**9c(1)(A)**			
(B) Administrative service or other fees	**9c(1)(B)**			
(C) Other specific acquisition costs	**9c(1)(C)**			
(D) Other expenses	**9c(1)(D)**			
(E) Taxes	**9c(1)(E)**			
(F) Charges for risks or other contingencies	**9c(1)(F)**			
(G) Other retention charges	**9c(1)(G)**			
(H) Total retention			**9c(1)(H)**	0
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.)			**9c(2)**	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement			**9d(1)**	
(2) Claim reserves			**9d(2)**	
(3) Other reserves			**9d(3)**	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line **9c(2)**.)			**9e**	
10 Nonexperience-rated contracts:				
a Total premiums or subscription charges paid to carrier			**10a**	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount.			**10b**	

Specify nature of costs.

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

SCHEDULE C (Form 5500)	Service Provider Information	OMB No. 1210-0110
Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ **File as an attachment to Form 5500.**	**2022** **This Form is Open to Public Inspection.**

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan	**B** Three-digit plan number (PN) ▶
AMGEN RETIREMENT AND SAVINGS PLAN	001
C Plan sponsor's name as shown on line 2a of Form 5500	**D** Employer Identification Number (EIN)
AMGEN INC.	95-3540776

Part I Service Provider Information (see instructions)

You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, $5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions).. . . . . [X] Yes [ ] No

b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

VANGUARD FIDUCIARY TRUST COMPANY

23-1945930

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

GALLIARD CAPITAL

41-1813702

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

WELLS FARGO

52-2250965

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

ARTISAN PARTNERS LTD. PARTNERSHIP

39-1870718

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

SEI TRUST COMPANY

06-1271230

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

ALTRINSIC GLOBAL ADVISORS, LLC

30-0016268

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, $5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

MERRILL LYNCH PIERCE FENNER & SMITH

13-5674085

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
15 21 25 37 38 50 51 64	NONE	4194593	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [ ] No [X]

(a) Enter name and EIN or address (see instructions)

SUSTAINABLE GROWTH ADVISERS, LP

05-0571266

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51 68	NONE	1374811	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [ ] No [X]

(a) Enter name and EIN or address (see instructions)

ARROWMARK PARTNERS

39-2068140

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51	NONE	1342095	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [ ] No [X]

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, $5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

VULCAN VALUE PARTNERS

39-2051712

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51	NONE	1117788	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

(a) Enter name and EIN or address (see instructions)

SNYDER CAPITAL MANAGEMENT L.P.

04-3370184

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51	NONE	1103552	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [ ] No [X]

(a) Enter name and EIN or address (see instructions)

PZENA INVESTMENT MANAGEMENT

13-3860154

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51	NONE	894867	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [ ] No [X]

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, $5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

ARISTOTLE CAPITAL MANAGEMENT

47-1867873

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51	NONE	867252	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [ ] No [X]

(a) Enter name and EIN or address (see instructions)

NORTHERN TRUST COMPANY

36-1561860

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
25 28 50 52 62	NONE	618962	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [ ] No [X]

(a) Enter name and EIN or address (see instructions)

SANDS CAPITAL MANAGEMENT, LLC

20-2830751

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51	NONE	590897	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [ ] No [X]

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, $5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

WELLINGTON TRUST COMPANY

04-2755549

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51	NONE	217579	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [ ] No [X]

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes [ ] No [ ]	Yes [ ] No [ ]		Yes [ ] No [ ]

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes [ ] No [ ]	Yes [ ] No [ ]		Yes [ ] No [ ]

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received $1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	**(b)** Service Codes (see instructions)	**(c)** Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	**(e)** Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

(a) Enter service provider name as it appears on line 2	**(b)** Service Codes (see instructions)	**(c)** Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	**(e)** Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

(a) Enter service provider name as it appears on line 2	**(b)** Service Codes (see instructions)	**(c)** Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	**(e)** Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	**(b)** Nature of Service Code(s)	**(c)** Describe the information that the service provider failed or refused to provide

(a) Enter name and EIN or address of service provider (see instructions)	**(b)** Nature of Service Code(s)	**(c)** Describe the information that the service provider failed or refused to provide

(a) Enter name and EIN or address of service provider (see instructions)	**(b)** Nature of Service Code(s)	**(c)** Describe the information that the service provider failed or refused to provide

(a) Enter name and EIN or address of service provider (see instructions)	**(b)** Nature of Service Code(s)	**(c)** Describe the information that the service provider failed or refused to provide

(a) Enter name and EIN or address of service provider (see instructions)	**(b)** Nature of Service Code(s)	**(c)** Describe the information that the service provider failed or refused to provide

(a) Enter name and EIN or address of service provider (see instructions)	**(b)** Nature of Service Code(s)	**(c)** Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)

(complete as many entries as needed)

a Name:	**b** EIN:
c Position:	
d Address:	**e** Telephone:

Explanation:

a Name:	**b** EIN:
c Position:	
d Address:	**e** Telephone:

Explanation:

a Name:	**b** EIN:
c Position:	
d Address:	**e** Telephone:

Explanation:

a Name:	**b** EIN:
c Position:	
d Address:	**e** Telephone:

Explanation:

a Name:	**b** EIN:
c Position:	
d Address:	**e** Telephone:

Explanation:

SCHEDULE D (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

DFE/Participating Plan Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).

▶ **File as an attachment to Form 5500.**

OMB No. 1210-0110

2022

This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan
AMGEN RETIREMENT AND SAVINGS PLAN

B Three-digit plan number (PN) ▶ 001

C Plan or DFE sponsor's name as shown on line 2a of Form 5500
AMGEN INC.

D Employer Identification Number (EIN)
95-3540776

Part I **Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs)**
(Complete as many entries as needed to report all interests in DFEs)

a Name of MTIA, CCT, PSA, or 103-12 IE: COLTV AGG BOND INDEX FD-NON-LEND

b Name of sponsor of entity listed in (a): NORTHERN TRUST COMPANY

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
27-6124985-001	C	1057763591

a Name of MTIA, CCT, PSA, or 103-12 IE: COLTV MSCI ACWI EX-US INDEX NL FUND

b Name of sponsor of entity listed in (a): NORTHERN TRUST COMPANY

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
45-6138589-117	C	262788273

a Name of MTIA, CCT, PSA, or 103-12 IE: COLTV SHORT TERM INVESTMENT FUND

b Name of sponsor of entity listed in (a): NORTHERN TRUST COMPANY

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
45-6138589-084	C	66942809

a Name of MTIA, CCT, PSA, or 103-12 IE: FTSE RAFI EMERGING INDEX NL FUND F

b Name of sponsor of entity listed in (a): BLACKROCK INSTITUTIONAL TRUST CO.

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
46-2767068-001	C	112477

a Name of MTIA, CCT, PSA, or 103-12 IE: GALLIARD SHORT CORE FUND F

b Name of sponsor of entity listed in (a): SEI TRUST COMPANY

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
52-2252204-001	C	199685238

a Name of MTIA, CCT, PSA, or 103-12 IE: GALLIARD INTERMEDIATE CORE FUND L

b Name of sponsor of entity listed in (a): SEI TRUST COMPANY

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
27-6635237-001	C	274598013

a Name of MTIA, CCT, PSA, or 103-12 IE: SHORT-TERM INVESTMENT FUND A S

b Name of sponsor of entity listed in (a): SEI TRUST COMPANY

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
41-6292499-001	C	34682824

a Name of MTIA, CCT, PSA, or 103-12 IE: PUTNAM ABSOLUTE RETURN FIXED INCOME

b Name of sponsor of entity listed in (a): PUTNAM FIDUCIARY TRUST CO LLC

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
26-2407878-270	C	23162850

a Name of MTIA, CCT, PSA, or 103-12 IE: METLIFE CORE PLUS COLLECTIVE TRUST

b Name of sponsor of entity listed in (a): METLIFE INVESTMENT MANAGEMENT

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
47-2237461-002	C	72484622

a Name of MTIA, CCT, PSA, or 103-12 IE: SCHRODER GLOBAL STRATEGIC BOND TRST

b Name of sponsor of entity listed in (a): SCHRODER INVESTMENT MANAGEMENT

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
84-2579090-015	C	23218462

a Name of MTIA, CCT, PSA, or 103-12 IE: WELLINGTON CORE BOND PLUS CIT II

b Name of sponsor of entity listed in (a): WELLINGTON

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
04-6913417-004	C	72303276

a Name of MTIA, CCT, PSA, or 103-12 IE: GQG PARTNERS INTERNATIONAL EQUITY C

b Name of sponsor of entity listed in (a): RELIANCE TRUST COMPANY

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
82-6253445-011	C	113567187

a Name of MTIA, CCT, PSA, or 103-12 IE: COLTV MSCI ACWI EX-US INDEX NL FUND

b Name of sponsor of entity listed in (a): NORTHERN TRUST COMPANY

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
45-6138589-103	C	29964989

a Name of MTIA, CCT, PSA, or 103-12 IE: RUSSELL 3000 INDEX FUND

b Name of sponsor of entity listed in (a): NORTHERN TRUST COMPANY

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
45-6138589-097	C	1049914923

a Name of MTIA, CCT, PSA, or 103-12 IE: MAWER INTL EQUITY COLTV FUND

b Name of sponsor of entity listed in (a): GLOBAL TRUST COMPANY

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
38-7140710-001	C	149386751

a Name of MTIA, CCT, PSA, or 103-12 IE: POLARIS CIT INTL VALUE COLTV FUND

b Name of sponsor of entity listed in (a): GLOBAL TRUST COMPANY

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
61-6556739-001	C	147792129

a Name of MTIA, CCT, PSA, or 103-12 IE: JENNISON INTL EQUITY OPP CIT

b Name of sponsor of entity listed in (a): WILMINGTON TRUST

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
38-4139857-001	C	82103363

Part II Information on Participating Plans (to be completed by DFEs)

(Complete as many entries as needed to report all participating plans)

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

SCHEDULE H (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Financial Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code).

▶ **File as an attachment to Form 5500.**

OMB No. 1210-0110

2022

This Form is Open to Public Inspection

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan
AMGEN RETIREMENT AND SAVINGS PLAN

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500
AMGEN INC.

D Employer Identification Number (EIN)
95-3540776

Part I Asset and Liability Statement

1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. **Round off amounts to the nearest dollar.** MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.

Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions	1b(1)		
(2) Participant contributions	1b(2)		
(3) Other	1b(3)	4502530	4090891
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)	49649048	1864522
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other	1c(3)(B)	4750	3011
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common	1c(4)(B)	1528109335	1087723887
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property)	1c(6)		
(7) Loans (other than to participants)	1c(7)		
(8) Participant loans	1c(8)	30243936	30051655
(9) Value of interest in common/collective trusts	1c(9)	4179015517	3660471778
(10) Value of interest in pooled separate accounts	1c(10)		
(11) Value of interest in master trust investment accounts	1c(11)		
(12) Value of interest in 103-12 investment entities	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds)	1c(13)	81887302	86858925
(14) Value of funds held in insurance company general account (unallocated contracts)	1c(14)	182357216	119248796
(15) Other	1c(15)	800655313	643477427

			(a) Beginning of Year	(b) End of Year
1d	Employer-related investments:			
	(1) Employer securities	1d(1)	331811884	371583932
	(2) Employer real property	1d(2)		
e	Buildings and other property used in plan operation	1e		
f	Total assets (add all amounts in lines 1a through 1e)	1f	7188236831	6005374824
	Liabilities			
g	Benefit claims payable	1g	3044375	1385506
h	Operating payables	1h		
i	Acquisition indebtedness	1i		
j	Other liabilities	1j	6957185	7264329
k	Total liabilities (add all amounts in lines 1g through1j)	1k	10001560	8649835
	Net Assets			
l	Net assets (subtract line 1k from line 1f)	1l	7178235271	5996724989

Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

	Income		(a) Amount	(b) Total
a	**Contributions:**			
	(1) Received or receivable in cash from: **(A)** Employers	2a(1)(A)	201864096	
	(B) Participants	2a(1)(B)	178185654	
	(C) Others (including rollovers)	2a(1)(C)	32721564	
	(2) Noncash contributions	2a(2)		
	(3) Total contributions. Add lines **2a(1)(A), (B), (C),** and line **2a(2)**	2a(3)		412771314
b	**Earnings on investments:**			
	(1) Interest:			
	(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	174441	
	(B) U.S. Government securities	2b(1)(B)		
	(C) Corporate debt instruments	2b(1)(C)	301	
	(D) Loans (other than to participants)	2b(1)(D)		
	(E) Participant loans	2b(1)(E)	1410247	
	(F) Other	2b(1)(F)		
	(G) Total interest. Add lines **2b(1)(A)** through **(F)**	2b(1)(G)		1584989
	(2) Dividends: **(A)** Preferred stock	2b(2)(A)		
	(B) Common stock	2b(2)(B)	22871345	
	(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	1876202	
	(D) Total dividends. Add lines **2b(2)(A)**, **(B)**, and **(C)**	2b(2)(D)		24747547
	(3) Rents	2b(3)		
	(4) Net gain (loss) on sale of assets: **(A)** Aggregate proceeds	2b(4)(A)	603739573	
	(B) Aggregate carrying amount (see instructions)	2b(4)(B)	767480376	
	(C) Subtract line **2b(4)(B)** from line **2b(4)(A)** and enter result	2b(4)(C)		-163740803
	(5) Unrealized appreciation (depreciation) of assets: **(A)** Real estate	2b(5)(A)		
	(B) Other	2b(5)(B)	-226870659	
	(C) Total unrealized appreciation of assets. Add lines **2b(5)(A)** and **(B)**	2b(5)(C)		-226870659

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		-446851922
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		-114254140
c Other income	2c		-225258661
d Total income. Add all **income** amounts in column (b) and enter total	2d		-737872335
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	431756453	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines **2e(1)** through **(3)**	2e(4)		431756453
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		43838
h Interest expense	2h		
i Administrative expenses: (1) Professional fees	2i(1)		
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)	11234176	
(4) Other	2i(4)	603480	
(5) Total administrative expenses. Add lines **2i(1)** through **(4)**	2i(5)		11837656
j Total expenses. Add all **expense** amounts in column (b) and enter total	2j		443637947
Net Income and Reconciliation			
k Net income (loss). Subtract line **2j** from line **2d**	2k		-1181510282
l Transfers of assets:			
(1) To this plan	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) [X] Unmodified **(2)** [ ] Qualified **(3)** [ ] Disclaimer **(4)** [ ] Adverse

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1) [ ] DOL Regulation 2520.103-8 **(2)** [ ] DOL Regulation 2520.103-12(d) **(3)** [X] neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: ERNST & YOUNG **(2)** EIN: 34-6565596

d The opinion of an independent qualified public accountant is **not attached** because:

(1) [ ] This form is filed for a CCT, PSA, or MTIA. **(2)** [ ] It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

		Yes	No	Amount
a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.)	4a		X	

			Yes	No	Amount
b	Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)	**4b**		X	
c	Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)	**4c**		X	
d	Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)	**4d**		X	
e	Was this plan covered by a fidelity bond?	**4e**	X		2000000
f	Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	**4f**		X	
g	Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?	**4g**		X	
h	Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?	**4h**		X	
i	Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	**4i**	X		
j	Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)	**4j**		X	
k	Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?	**4k**		X	
l	Has the plan failed to provide any benefit when due under the plan?	**4l**		X	
m	If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	**4m**		X	
n	If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.	**4n**			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? ☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	**5b(2)** EIN(s)	**5b(3)** PN(s)

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) ☐ Yes ☐ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year _____.

SCHEDULE R (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Retirement Plan Information

This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code).

▶ **File as an attachment to Form 5500.**

OMB No. 1210-0110

2022

This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan
AMGEN RETIREMENT AND SAVINGS PLAN

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500
AMGEN INC.

D Employer Identification Number (EIN)
95-3540776

Part I Distributions

All references to distributions relate only to payments of benefits during the plan year.

1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions **1** 0

2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits):

EIN(s): 45-6138589 _____

Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.

3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year **3**

Part II Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)

4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ..... ☐ **Yes** ☐ **No** ☐ **N/A**

If the plan is a defined benefit plan, go to line 8.

5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. **Date:** Month _____ Day _____ Year _____

If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.

6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived) **6a**

b Enter the amount contributed by the employer to the plan for this plan year **6b**

c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount) **6c**

If you completed line 6c, skip lines 8 and 9.

7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ..... ☐ **Yes** ☐ **No** ☐ **N/A**

8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ..... ☐ **Yes** ☐ **No** ☐ **N/A**

Part III Amendments

9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box. ..... ☐ **Increase** ☐ **Decrease** ☐ **Both** ☐ **No**

Part IV ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.

10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan? ..... ☐ **Yes** ☒ **No**

11 a Does the ESOP hold any preferred stock? ..... ☐ **Yes** ☒ **No**

b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.) ..... ☐ **Yes** ☒ **No**

12 Does the ESOP hold any stock that is not readily tradable on an established securities market? ..... ☐ **Yes** ☒ **No**

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that (1) contributed more than 5% of total contributions to the plan during the plan year or (2) was one of the top-ten highest contributors (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN **c** Dollar amount contributed by employer

d Date collective bargaining agreement expires *(If employer contributes under more than one collective bargaining agreement, check box* ☐ *and see instructions regarding required attachment. Otherwise, enter the applicable date.)* Month _____ Day _____ Year _____

e Contribution rate information *(If more than one rate applies, check this box* ☐ *and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)*
(1) Contribution rate (in dollars and cents) _____
(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify):

---

a Name of contributing employer

b EIN **c** Dollar amount contributed by employer

d Date collective bargaining agreement expires *(If employer contributes under more than one collective bargaining agreement, check box* ☐ *and see instructions regarding required attachment. Otherwise, enter the applicable date.)* Month _____ Day _____ Year _____

e Contribution rate information *(If more than one rate applies, check this box* ☐ *and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)*
(1) Contribution rate (in dollars and cents) _____
(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

---

a Name of contributing employer

b EIN **c** Dollar amount contributed by employer

d Date collective bargaining agreement expires *(If employer contributes under more than one collective bargaining agreement, check box* ☐ *and see instructions regarding required attachment. Otherwise, enter the applicable date.)* Month _____ Day _____ Year _____

e Contribution rate information *(If more than one rate applies, check this box* ☐ *and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)*
(1) Contribution rate (in dollars and cents) _____
(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

---

a Name of contributing employer

b EIN **c** Dollar amount contributed by employer

d Date collective bargaining agreement expires *(If employer contributes under more than one collective bargaining agreement, check box* ☐ *and see instructions regarding required attachment. Otherwise, enter the applicable date.)* Month _____ Day _____ Year _____

e Contribution rate information *(If more than one rate applies, check this box* ☐ *and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)*
(1) Contribution rate (in dollars and cents) _____
(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

---

a Name of contributing employer

b EIN **c** Dollar amount contributed by employer

d Date collective bargaining agreement expires *(If employer contributes under more than one collective bargaining agreement, check box* ☐ *and see instructions regarding required attachment. Otherwise, enter the applicable date.)* Month _____ Day _____ Year _____

e Contribution rate information *(If more than one rate applies, check this box* ☐ *and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)*
(1) Contribution rate (in dollars and cents) _____
(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

---

a Name of contributing employer

b EIN **c** Dollar amount contributed by employer

d Date collective bargaining agreement expires *(If employer contributes under more than one collective bargaining agreement, check box* ☐ *and see instructions regarding required attachment. Otherwise, enter the applicable date.)* Month _____ Day _____ Year _____

e Contribution rate information *(If more than one rate applies, check this box* ☐ *and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)*
(1) Contribution rate (in dollars and cents) _____
(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

14 Enter the number of deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:

a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: ☐ last contributing employer ☐ alternative ☐ reasonable approximation (see instructions for required attachment)	**14a**	
b The plan year immediately preceding the current plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	**14b**	
c The second preceding plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	**14c**	

15 Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:

a The corresponding number for the plan year immediately preceding the current plan year	**15a**	
b The corresponding number for the second preceding plan year	**15b**	

16 Information with respect to any employers who withdrew from the plan during the preceding plan year:

a Enter the number of employers who withdrew during the preceding plan year	**16a**	
b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers	**16b**	

17 If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐

Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans

18 If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐

19 If the total number of participants is 1,000 or more, complete lines (a) through (c)

a Enter the percentage of plan assets held as:
Stock: _____% Investment-Grade Debt: _____% High-Yield Debt: _____% Real Estate: _____% Other: _____%

b Provide the average duration of the combined investment-grade and high-yield debt:
☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more

c What duration measure was used to calculate line 19(b)?
☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify):

20 **PBGC missed contribution reporting requirements.** If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20.

a Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? ☐ Yes ☐ No

b If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box:

☐ Yes.

☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date.

☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date.

☐ No. Other. Provide explanation_____

FINANCIAL STATEMENTS AND SUPPLEMENTAL SCHEDULE

Amgen Retirement and Savings Plan
Year Ended December 31, 2022
With Report of Independent Auditors

Amgen Retirement and Savings Plan

Audited Financial Statements
and Supplemental Schedule

Year Ended December 31, 2022

Contents

Report of Independent Auditors 1

Audited Financial Statements:

Statements of Net Assets Available for Benefits at December 31, 2022 and 2021 4

Statement of Changes in Net Assets Available for Benefits for the year ended December 31, 2022 5

Notes to Financial Statements 6

Supplemental Schedule:

Schedule of Assets (Held at End of Year) 13

Ernst & Young LLP
Suite 500
725 S Figueroa Street
Los Angeles, Ca 90017

Tel: +1 213 977 3200
Fax: +1 213 977 3729
ey.com

Report of Independent Auditors

To the Plan Participants and the Plan Administrator of Amgen Retirement and Savings Plan

Opinion

We have audited the financial statements of Amgen Retirement and Savings Plan (the Plan), an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), which comprise the statements of net assets available for benefits as of December 31, 2022 and 2021, and the related statement of changes in net assets available for benefits for the year ended December 31, 2022, and the related notes (collectively referred to as the "financial statements").

In our opinion, the accompanying financial statements present fairly, in all material respects, the net assets available for benefits of the Plan at December 31, 2022 and 2021, and the changes in its net assets available for benefits for the year ended December 31, 2022, in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Plan and to meet our other ethical responsibilities in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for one year after the date that the financial statements are available to be issued.

Management is also responsible for maintaining a current plan instrument, including all plan amendments, administering the Plan, and determining that the Plan's transactions that are

presented and disclosed in the financial statements are in conformity with the Plan's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control related matters that we identified during the audit.

Supplemental Schedule Required by ERISA

Our audits were conducted for the purpose of forming an opinion of the financial statements as a whole. The supplemental schedule of assets (held at end of year) as of December 31, 2022, (referred to as the "supplemental schedule"), is presented for purposes of additional analysis

and is not a required part of the financial statements but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to auditing procedures applied in the audits of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with GAAS.

In forming our opinion on the supplemental schedule, we evaluated whether the supplemental schedule, including its form and content, is presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

In our opinion, the information in the supplemental schedule is fairly stated, in all material respects, in relation to the financial statements as a whole, and the form and content are presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

Ernst & Young LLP

June 14, 2023

Amgen Retirement and Savings Plan
Statements of Net Assets Available for Benefits

	December 31,	
	2022	2021
Assets		
Investments at fair value	$ 5,377,700,230	$ 6,436,111,194
Investments in fully benefit-responsive investment contracts at contract value	652,003,057	714,985,494
Notes receivable from participants	30,480,124	30,628,567
Other – principally due from broker	4,090,891	4,502,530
Total assets	6,064,274,302	7,186,227,785
Liabilities		
Other – principally due to broker	7,264,329	6,957,185
Total liabilities	7,264,329	6,957,185
Net assets available for benefits	$ 6,057,009,973	$ 7,179,270,600

See accompanying notes.

Amgen Retirement and Savings Plan
Statement of Changes in Net Assets Available for Benefits

	Year Ended December 31, 2022
Additions to (deductions from) net assets:	
Employer contributions	$ 201,864,096
Participant contributions	178,185,654
Rollover contributions	32,721,564
Interest and dividend income	42,567,750
Net realized/unrealized losses	(1,133,756,960)
Interest income on notes receivable from participants	1,410,247
Benefits paid	(433,415,322)
Investment and administrative fees	(11,837,656)
Net decrease	(1,122,260,627)
Net assets available for benefits at beginning of year	7,179,270,600
Net assets available for benefits at end of year	$ 6,057,009,973

See accompanying notes.

Amgen Retirement and Savings Plan
Notes to Financial Statements
December 31, 2022

1. Description of the Plan

The following description of the Amgen Retirement and Savings Plan (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 April 1, 1985, and was amended and restated effective January 1, 2017, and subsequently amended, with the most recent amendment adopted on December 19, 2022. The Plan is a defined contribution plan covering substantially all domestic employees of Amgen Inc. (the Company or Amgen) and participating subsidiaries. The Plan is intended to qualify under sections 401(a) and 401(k) of the Internal Revenue Code of 1986 (the 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, Roth contributions (in accordance with the Code), after-tax contributions or a combination of these types of contributions (together, Individual Contributions). A participant's combined pre-tax contributions and Roth contributions (exclusive of catch-up contributions discussed below) are subject to Internal Revenue Service (IRS) and Plan limits and could not exceed a maximum of $20,500 in 2022. Participant after-tax contributions are subject to IRS and Plan limitations and could not exceed a maximum of $10,000 in 2022. 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 Individual 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 Individual Contributions, referred to as catch-up contributions, that are subject to IRS and Plan limitations and could not exceed $6,500 in 2022. Catch-up contributions may be made as pre-tax contributions, Roth contributions or a combination of these types of contributions. Participants may also contribute pre-tax, Roth and after-tax amounts representing distributions from certain retirement plans qualified in the United States or certain individual retirement accounts (IRAs), 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 Individual Contributions to the Plan, equal to 5% of each participant's eligible compensation (Core Contributions) up to a maximum of $15,250 in 2022. In addition, the Company makes a contribution equal to amounts contributed by the participant as pre-tax contributions or Roth contributions, including such contributions designated as catch-up contributions, of up to 5% of eligible compensation (Matching Contributions) up to a maximum of $15,250 in 2022.

Also, the Company can, at its discretion, make a special contribution (Special Contribution) on behalf of a participant who is in his or her initial year of employment with the Company and who could not make the maximum participant contribution permitted under the Plan because in the same Plan year he or she previously made pre-tax salary deferrals under a prior unrelated employer's qualified plan.

Participants select the investments in which their Individual Contributions, including their Core Contributions, Matching Contributions and Special Contributions, if any, (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 Individual Contributions, Matching Contributions and Special Contributions, if any, 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 Amgen, 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 (a) the date the participant incurs a five-year break in service, as defined by the terms of the Plan or, (b) 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 Individual 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

Plan participants can invest in seven different asset classes as well as Amgen stock or can 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 invest in various types of assets, including publicly traded common and preferred stocks, collective trust funds and investment contracts. 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, participants may elect to receive a full or partial distribution of their 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; (d) cash installments over 10 years; or (e) 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.

No withdrawals may be made from the Plan while a participant continues to be employed by the Company except in certain circumstances including, but not limited to, financial hardship, disability and attainment of age 59 1/2.

Amgen Stock Dividends

Participants that invest in Amgen stock may elect to receive distributions of cash with respect to dividends the Company pays on Amgen stock or reinvest such dividends to acquire additional shares of Amgen stock.

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 (exclusive of amounts related to Roth contributions and earnings thereon) 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 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 of up 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 become fully vested in Core Contributions and receive distributions of their account balances.

Trustees and Custodians

Bank of America, N.A. is the Plan's trustee and custodian with respect to the self-directed brokerage arrangement and the Amgen common stock fund. The Northern Trust Company, NA (Northern) is the Plan's trustee and 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. Benefits to participants are recorded when paid.

Fair Value Measurement

The investments of the Plan are reported at fair value, except for fully benefit-responsive investment contracts, discussed below. 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.

Fully Benefit-Responsive Investment Contracts

As of December 31, 2022 and 2021, the Plan had fully benefit-responsive investment contracts, including synthetic investment contracts and an insurance separate accounts contract (collectively, security-backed contracts). The synthetic investment contracts are comprised of wrapper contracts issued by insurance companies backed by the Plan's ownership in collective trust funds that invest in fixed income securities. The insurance separate accounts contract is a contract issued by an insurance company backed by specified separate accounts of the issuer which are comprised of fixed income securities. Contract value is the relevant measurement attribute for security-backed contracts because this is the amount participants would receive if they were to initiate qualified transactions related to these investments. The issuers of the Plan's security-backed contracts credit the Plan with stated rates of interest, and the issuers guarantee that all qualified participant withdrawals related to the contracts will be at contract value, except as discussed below. The crediting rates provide for realized and unrealized gains and losses on the underlying assets to be amortized over the expected duration of the underlying investments through adjustments to the future interest crediting rates rather than being reflected immediately in the net assets of the Plan. The contract values of the Plan's security-backed contracts were as follows:

	December 31,	
	2022	**2021**
Synthetic investment contracts	$ 520,899,132	$ 533,077,342
Insurance separate accounts contract	131,103,925	181,908,152
Total fully benefit-responsive investment contracts	$ 652,003,057	$ 714,985,494

The security-backed contracts provide for withdrawals at other than contract value associated with certain events which are not in the ordinary course of Plan operations. These withdrawals are made at contract value, modified by a market value adjustment as defined in the contract. Circumstances which may trigger a market value adjustment are generally defined as any event that, in the reasonable determination of the issuer, has or will have a material adverse effect on the issuer's interest under the contract. Such events may include, but are not limited to: (a) material amendments to the Plan's structure or administration; (b) changes in or the creation of competing investment options; (c) complete or partial termination of the Plan; (d) removal of a specifically identifiable group of employees from coverage under the Plan; (e) a change in law, regulation, ruling, administrative position, or accounting standard applicable to the Plan; or (f) communication to Plan participants designed to influence a participant not to invest in the asset class that contains these contracts. The Company does not believe that the occurrence of any such event, which would limit the Plan's ability to transact at contract value with participants, is probable.

These security-backed contracts are evergreen contracts with no maturity dates, but do contain termination provisions. The issuer is obligated to pay the excess contract value when the fair value of the underlying investments equals zero. In addition, if the Plan defaults in its obligations under the security-backed contract and such default is not corrected within the time permitted by the contract, then the contract may be terminated by the issuer and the Plan will receive the fair value of the underlying investments as of the date of termination.

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.

Risks and Uncertainties

The Plan provides for investment options representing varied combinations of equities (including Amgen stock), fixed income, and other investments. Investments, in general, particularly in securities, are exposed to various risks, such as interest rate, inflation, market and credit risks, among others. Market risk includes global events which could impact the value of investments, including securities, such as a pandemic or international conflict. Due to the level of risk associated with certain investments, including securities, it is at least reasonably possible that changes in the values of the Plan's investments, including securities, will occur in the near term and that such changes could materially affect participant account balances and the amounts reported in the Plan's financial statements.

3. Fair Value Measurements

The Plan uses various valuation approaches in determining the fair value of investments within a hierarchy that maximizes the use of observable inputs and minimizes the use of unobservable inputs by requiring that observable inputs be used when available. Observable inputs are inputs that market participants would use in pricing the investment based on market data obtained from independent sources. Unobservable inputs are inputs that reflect assumptions about the inputs that market participants would use in pricing the investment and are developed based on the best information available in the circumstances. The fair value hierarchy is divided into three levels based on the source of inputs as follows:

Level 1 – Valuations based on unadjusted quoted prices in active markets for identical investments that the Plan has the ability to access;

Level 2 – Valuations for which all significant inputs are observable, either directly or indirectly, other than Level 1 inputs;

Level 3 – Valuations based on inputs that are unobservable and significant to the overall fair value measurement.

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

The following fair value hierarchy tables present information about each major class/category of the Plan's investments measured at fair value:

	Fair value measurements at December 31, 2022, 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	$ 371,583,932	$ —	$ —	$ 371,583,932
Cash and cash equivalents	1,864,522	—	—	1,864,522
Collective trust funds	—	3,186,188,526	—	3,186,188,526
Common and preferred stocks	1,087,736,640	—	—	1,087,736,640
Debt securities	—	3,011	—	3,011
Mutual funds	86,858,925	—	—	86,858,925
Self-directed brokerage accounts	641,127,619	2,337,055	—	643,464,674
Total investments at fair value	$ 2,189,171,638	$3,188,528,592	$ —	$5,377,700,230

	Fair value measurements at December 31, 2021, 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	$ 331,811,884	$ —	$ —	$ 331,811,884
Cash and cash equivalents	49,649,048	—	—	49,649,048
Collective trust funds	—	3,643,993,561	—	3,643,993,561
Common and preferred stocks	1,546,823,788	—	—	1,546,823,788
Debt securities	—	4,828	—	4,828
Mutual funds	81,887,302	—	—	81,887,302
Self-directed brokerage accounts	780,896,567	1,044,216	—	781,940,783
Total investments at fair value	$2,791,068,589	$3,645,042,605	$ —	$6,436,111,194

The fair values of substantially all common stocks (including Amgen stock), preferred stocks, publicly traded 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.

4. Income Tax Status

The Plan received a determination letter from the IRS dated February 22, 2018, stating that, conditioned on the adoption of proposed Plan amendments submitted to the IRS on February 15, 2018, the Plan is qualified, in form, under Section 401(a) of the Code and, therefore, the related trust is exempt from taxation. There have been six subsequent amendments to the Plan, including amendments to satisfy the conditions in the determination letter. Once qualified, the Plan is required to operate in conformity with the Code to maintain its qualification. The Company believes the Plan is currently being operated in compliance with the applicable requirements of the Code and, therefore, believes that the Plan is qualified and the related trust is tax exempt. The Company has indicated that it currently intends to continue to take the necessary steps, if any, to maintain the Plan's compliance with the applicable requirements of the Code.

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 trustees certain administrative and investment management fees, and the Company pays certain administrative fees on behalf of the Plan. The Plan invests 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. In addition, Northern enters into security-backed contracts with certain insurance companies on behalf of the Plan.

6. Reconciliation of Financial Statements to the Form 5500

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

	December 31,	
	2022	2021
Net assets available for benefits per the financial statements	$ 6,057,009,973	$ 7,179,270,600
Adjustment to fair value for fully benefit-responsive investment contracts	(58,471,009)	2,393,677
Amounts allocated to withdrawing participants	(1,385,506)	(3,044,375)
Deemed loans	(428,469)	(384,631)
Net assets per the Form 5500	$ 5,996,724,989	$ 7,178,235,271

The following is a reconciliation of the net investment loss per the financial statements to the Form 5500:

	Year Ended December 31, 2022
Interest and dividend income	$ 42,567,750
Net realized/unrealized losses	(1,133,756,960)
Net investment loss per the financial statements	(1,091,189,210)
Adjustment from fair value to contract value for fully benefit-responsive investment contracts:	
Less prior-year adjustment	(2,393,677)
Add current-year adjustment	(58,471,009)
Total net investment loss per the Form 5500	$ (1,152,053,896)

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

	Year Ended December 31, 2022
Benefits paid	$ (433,415,322)
Investment and administrative fees	(11,837,656)
Total expenses per the financial statements	(445,252,978)
Amounts allocated to withdrawing participants at December 31, 2021	3,044,375
Amounts allocated to withdrawing participants at December 31, 2022	(1,385,506)
Deemed loans at December 31, 2021	384,631
Deemed loans at December 31, 2022	(428,469)
Total expenses per the Form 5500	$ (443,637,947)

Supplemental Schedule
Amgen Retirement and Savings Plan
EIN: 95-3540776 Plan: #001
As of December 31, 2022
Schedule H, line 4i – Schedule of Assets (Held at End of Year)

Identity of Issue	Description of Investment	Current Value	
Amgen stock*	Employer Securities 1,414,803 shares	$ 371,583,932	
			$ 371,583,932
Capital Preservation Asset Class:			
Galliard Intermediate Core Fund L*	Collective Trust Fund 20,795,318 units	274,598,013	
Galliard Short Core Fund F*	Collective Trust Fund 13,343,038 units	199,685,238	
Metropolitan Life Contract*	Insurance Separate Accounts Investment Contract 1,028,224 units	119,248,796	
Galliard Short-Term Investment Fund A S*	Collective Trust Fund 34,682,824 units	34,682,824	
NT Collective Short Term Investment Fund*	Collective Trust Fund 32,360,600 units	32,360,600	
Wrapper Contracts		—	
Total Capital Preservation Asset Class			660,575,471
Fixed Income Active Asset Class:			
Metlife Core Plus Collective Fund*	Collective Trust Fund 7,794,045 units	72,484,622	
Wellington Core Bond Plus Portfolio Collective Investment Trust II*	Collective Trust Fund 6,549,210 units	72,303,276	
Schroder Global Strategic Bond Trust Class W*	Collective Trust Fund 2,357,204 units	23,218,462	
Putnam Absolute Return Fixed Income Fund*	Collective Trust Fund 315,355 units	23,162,850	
NT Collective Aggregate Bond Index Fund / Non Lending*	Collective Trust Fund 109,420 units	15,384,403	
Banc America Alternative Loan Trust Series 2004-6 Class 4A 15.0% Due 10-25-2048*	Corporate Bond 2,379 units	1,901	
GMAC Mortgage Loan Trust 2003/J10 4.75% Due 01/25/2019	Corporate Bond 1,132 units	1,110	
Total Fixed Income Active Asset Class			206,556,624
Fixed Income Index Asset Class:			
NT Collective Aggregate Bond Index Fund / Non Lending*	Collective Trust Fund 7,413,792 units	1,042,379,189	
Total Fixed Income Index Asset Class			1,042,379,189
U.S. Equity Active Asset Class:			
NT Collective Russell 3000 Index Fund / Non Lending*	Collective Trust Fund 916,387 units	54,551,618	
NT Collective Short Term Investment Fund*	Collective Trust Fund 34,267,621 units	34,267,621	
Visa Inc. Class A	Common and Preferred Stock 149,743 shares	31,110,606	
Microsoft Corporation	Common and Preferred Stock 103,101 shares	24,725,682	
General Electric	Common and Preferred Stock 241,565 shares	20,240,731	
Amazon.com, Inc.	Common and Preferred Stock 203,990 shares	17,135,160	
CoStar Group Inc.	Common and Preferred Stock 201,426 shares	15,566,201	
TransDigm Group Inc.	Common and Preferred Stock 21,359 shares	13,448,694	
Intuit	Common and Preferred Stock 33,709 shares	13,120,217	

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

Identity of Issue	Description of Investment	Current Value
Netflix, Inc.	Common and Preferred Stock 43,034 shares	12,689,866
Ball Corporation	Common and Preferred Stock 224,791 shares	11,495,812
Amazon Inc.	Common and Preferred Stock 127,655 shares	10,723,020
DEX Inc.	Common and Preferred Stock 94,556 shares	10,707,521
The Carlyle Group Inc.	Common and Preferred Stock 340,558 shares	10,162,251
Heico Corporation Class A	Common and Preferred Stock 84,583 shares	10,137,273
UnitedHealth Group Inc.	Common and Preferred Stock 18,842 shares	9,989,652
Alphabet Inc.	Common and Preferred Stock 111,264 shares	9,872,455
ServiceNow, Inc.	Common and Preferred Stock 25,225 shares	9,794,111
Mastercard Inc. Class A	Common and Preferred Stock 27,981 shares	9,729,833
KKR & Company Inc. Class A	Common and Preferred Stock 203,546 shares	9,448,605
Jones Lang LaSalle Inc.	Common and Preferred Stock 59,246 shares	9,442,035
Skyworks Solutions Inc	Common and Preferred Stock 101,963 shares	9,291,888
Qorvo, Inc.	Common and Preferred Stock 101,499 shares	9,199,869
Citigroup Inc.	Common and Preferred Stock 201,874 shares	9,130,761
Danaher Corporation	Common and Preferred Stock 34,228 shares	9,084,796
Skechers USA Inc. Class A	Common and Preferred Stock 216,117 shares	9,066,108
Dow Inc.	Common and Preferred Stock 169,567 shares	8,544,481
Workday Inc. Class A	Common and Preferred Stock 50,041 shares	8,373,361
Salesforce.com Inc.	Common and Preferred Stock 63,086 shares	8,364,573
MSCI Inc.	Common and Preferred Stock 17,624 shares	8,198,156
Alphabet Inc. Class C	Common and Preferred Stock 90,086 shares	7,993,331
SS&C Technologies Holdings Inc.	Common and Preferred Stock 150,989 shares	7,860,487
Yum! Brands Inc.	Common and Preferred Stock 61,326 shares	7,854,634
Thermo Fisher Corporation	Common and Preferred Stock 14,144 shares	7,788,959
S&P Global Inc	Common and Preferred Stock 23,194 shares	7,768,598
Lear Corporation	Common and Preferred Stock 60,595 shares	7,514,992
Applied Materials Inc.	Common and Preferred Stock 76,950 shares	7,493,391
Ecolab Inc.	Common and Preferred Stock 49,495 shares	7,204,492
salesforce.com, inc.	Common and Preferred Stock 54,265 shares	7,194,996
Wells Fargo & Company*	Common and Preferred Stock 173,140 shares	7,148,951
Block, Inc.	Common and Preferred Stock 108,121 shares	6,794,324
Merit Medical Systems Inc.	Common and Preferred Stock 95,329 shares	6,732,134
Equinix Inc.	Common and Preferred Stock 10,222 shares	6,695,717
Ares Management Corporation	Common and Preferred Stock 97,564 shares	6,677,280
Henry Schein Inc.	Common and Preferred Stock 82,753 shares	6,609,482
Match Group Inc.	Common and Preferred Stock 158,284 shares	6,567,203
Anthem Inc.	Common and Preferred Stock 12,669 shares	6,498,817
Autodesk Inc.	Common and Preferred Stock 34,741 shares	6,492,051
Fresenius Medical Care	Common and Preferred Stock 394,430 shares	6,444,986
QuidelOrtho Corporation	Common and Preferred Stock 75,205 shares	6,442,812

Identity of Issue	Description of Investment	Current Value
Regeneron Pharmaceuticals, Inc.	Common and Preferred Stock 8,886 shares	6,411,160
Edison International	Common and Preferred Stock 100,177 shares	6,373,261
Intuitive Surgical, Inc.	Common and Preferred Stock 23,943 shares	6,353,275
Capital One Financial Corporation	Common and Preferred Stock 67,296 shares	6,255,836
Iqvia Holdings Inc.	Common and Preferred Stock 30,323 shares	6,212,879
Newell Brands Inc.	Common and Preferred Stock 471,754 shares	6,170,542
STERIS plc	Common and Preferred Stock 33,346 shares	6,158,673
Clean Harbors Inc.	Common and Preferred Stock 53,656 shares	6,123,223
CBRE Group Inc. Class A	Common and Preferred Stock 79,495 shares	6,117,935
NICE Limited	Common and Preferred Stock 31,447 shares	6,047,258
Wabtec Corporation	Common and Preferred Stock 60,293 shares	6,017,844
The Sherwin-Williams Company	Common and Preferred Stock 25,252 shares	5,993,057
MetLife Inc.*	Common and Preferred Stock 81,528 shares	5,900,181
Lam Research Corporation	Common and Preferred Stock 13,971 shares	5,872,011
Ritchie Bros. Auctioneers Inc.	Common and Preferred Stock 100,945 shares	5,837,649
Waste Connections Inc.	Common and Preferred Stock 42,173 shares	5,590,453
Aon PLC	Common and Preferred Stock 18,608 shares	5,585,005
Cognizant Technology Solutions Corporation Class A	Common and Preferred Stock 95,458 shares	5,459,243
Starbucks Corporation	Common and Preferred Stock 54,776 shares	5,433,779
Halozyme Therapeutics Inc.	Common and Preferred Stock 94,436 shares	5,373,408
Equitable Holdings Inc.	Common and Preferred Stock 184,345 shares	5,290,702
American Express Company	Common and Preferred Stock 35,666 shares	5,269,652
FleetCor Technologies, Inc.	Common and Preferred Stock 28,174 shares	5,175,000
JP Morgan Chase & Company	Common and Preferred Stock 37,836 shares	5,073,808
FMC Corporation	Common and Preferred Stock 40,278 shares	5,026,694
Voya Financial Inc.	Common and Preferred Stock 81,099 shares	4,986,778
Synopsys Inc.	Common and Preferred Stock 15,542 shares	4,962,405
Sensata Technologies BV Holding	Common and Preferred Stock 122,013 shares	4,926,885
Gildan Activewear Inc.	Common and Preferred Stock 178,471 shares	4,890,105
Adobe Systems Inc.	Common and Preferred Stock 14,312 shares	4,816,417
Alight Inc. Class A	Common and Preferred Stock 572,144 shares	4,783,124
Booking Holdings Inc.	Common and Preferred Stock 2,371 shares	4,778,229
Shopify Inc	Common and Preferred Stock 137,098 shares	4,758,672
Ametek Inc.	Common and Preferred Stock 33,886 shares	4,734,552
Charles River Laboratories International Inc.	Common and Preferred Stock 21,571 shares	4,700,321
Amdocs Limited	Common and Preferred Stock 51,242 shares	4,657,898
American International Group Inc.*	Common and Preferred Stock 71,278 shares	4,507,621
Axis Capital Holdings Limited	Common and Preferred Stock 82,372 shares	4,462,091
J2 Global Inc.	Common and Preferred Stock 56,357 shares	4,457,839
Dollar General Corporation	Common and Preferred Stock 18,034 shares	4,440,873
Frontdoor Inc.	Common and Preferred Stock 210,580 shares	4,380,064
Uber Technologies Inc.	Common and Preferred Stock 176,662 shares	4,368,851
Bristol Myers Squibb	Common and Preferred Stock 60,424 shares	4,347,507
Warner Music Group Corporation Class A	Common and Preferred Stock 123,966 shares	4,341,289

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

Identity of Issue	Description of Investment	Current Value
Abbott Laboratories	Common and Preferred Stock 39,208 shares	4,304,646
Atlassian Corporation	Common and Preferred Stock 33,396 shares	4,297,397
Bank of America Corporation*	Common and Preferred Stock 129,352 shares	4,284,138
Euronet Worldwide Inc.	Common and Preferred Stock 44,111 shares	4,163,196
Amphenol Corporation Class A	Common and Preferred Stock 53,002 shares	4,035,572
Snowflake Inc. Class A	Common and Preferred Stock 27,936 shares	4,009,933
Floor & Decor Holdings Inc.	Common and Preferred Stock 56,999 shares	3,968,840
Lam Resh Corporation	Common and Preferred Stock 9,400 shares	3,950,820
BWX Technologies Inc.	Common and Preferred Stock 65,887 shares	3,826,717
Hewlett Packard Enterprise Company	Common and Preferred Stock 236,275 shares	3,770,949
IDEX Corporation	Common and Preferred Stock 16,402 shares	3,745,069
NOV Inc.	Common and Preferred Stock 174,258 shares	3,640,250
Catalent Inc.	Common and Preferred Stock 79,418 shares	3,574,604
LKQ Corporation	Common and Preferred Stock 66,504 shares	3,551,979
Entegris Inc.	Common and Preferred Stock 53,774 shares	3,527,037
UGI Corporation	Common and Preferred Stock 94,888 shares	3,517,498
Churchill Downs Inc.	Common and Preferred Stock 16,560 shares	3,501,281
Cooper Companies Inc.	Common and Preferred Stock 10,414 shares	3,443,597
HealthEquity Inc.	Common and Preferred Stock 55,442 shares	3,417,445
Cloudflare Inc.	Common and Preferred Stock 75,256 shares	3,402,324
Mohawk Industries Inc.	Common and Preferred Stock 32,835 shares	3,356,394
Trimble Inc.	Common and Preferred Stock 65,797 shares	3,326,696
Datadog Inc.	Common and Preferred Stock 45,145 shares	3,318,158
Ingredion Inc.	Common and Preferred Stock 33,198 shares	3,251,080
Sarepta Therapeutics Inc.	Common and Preferred Stock 25,083 shares	3,250,255
Align Technology, Inc.	Common and Preferred Stock 15,235 shares	3,213,062
Huntington Bancshares Inc.	Common and Preferred Stock 226,407 shares	3,192,339
On Semiconductor Corporation	Common and Preferred Stock 50,175 shares	3,129,415
Acadia Healthcare Company Inc.	Common and Preferred Stock 37,658 shares	3,100,007
GlobalFoundries Inc.	Common and Preferred Stock 56,754 shares	3,058,473
ACV Auctions Inc. Class A	Common and Preferred Stock 362,242 shares	2,974,007
Momentive Global Inc.	Common and Preferred Stock 420,511 shares	2,943,577
PVH Corporation	Common and Preferred Stock 41,692 shares	2,943,038
Goldman Sachs Group Inc.	Common and Preferred Stock 8,531 shares	2,929,375
Brown & Brown Inc.	Common and Preferred Stock 51,117 shares	2,912,135
Cabot Corporation	Common and Preferred Stock 43,137 shares	2,883,277
Forward Air Corporation	Common and Preferred Stock 27,433 shares	2,877,447
National Retail Properties Inc.	Common and Preferred Stock 61,130 shares	2,797,309
Halliburton Company	Common and Preferred Stock 70,102 shares	2,758,514
Carter Inc.	Common and Preferred Stock 36,956 shares	2,757,287
Magna International Inc.	Common and Preferred Stock 46,742 shares	2,625,966
DoorDash Inc. Class A	Common and Preferred Stock 53,739 shares	2,623,538
Dycom Industries Inc.	Common and Preferred Stock 27,825 shares	2,604,420
Nvidia Corporation	Common and Preferred Stock 17,798 shares	2,601,000
Western Alliance Bancorporation	Common and Preferred Stock 43,353 shares	2,582,105
FTI Consulting Inc.	Common and Preferred Stock 16,067 shares	2,551,440
Tennant Company	Common and Preferred Stock 40,921 shares	2,519,506
MACOM Technology Solutions Holdings Inc.	Common and Preferred Stock 39,895 shares	2,512,587

Identity of Issue	Description of Investment	Current Value
ZipRecruiter Inc. Class A	Common and Preferred Stock 152,341 shares	2,501,439
CarGurus Inc. Class A	Common and Preferred Stock 178,026 shares	2,494,144
N-Able Technologies International Inc.	Common and Preferred Stock 239,102 shares	2,457,969
Keysight Technologies Inc.	Common and Preferred Stock 14,214 shares	2,431,589
Gartner Inc.	Common and Preferred Stock 7,212 shares	2,424,242
Certara Inc.	Common and Preferred Stock 149,505 shares	2,402,545
Sea Limited	Common and Preferred Stock 45,514 shares	2,368,093
LPL Financial Holdings Inc.	Common and Preferred Stock 10,540 shares	2,278,432
Huron Consulting Group Inc.	Common and Preferred Stock 31,374 shares	2,277,752
Graphic Packaging Holding Company	Common and Preferred Stock 100,972 shares	2,246,627
AerCap Holdings N.V.	Common and Preferred Stock 38,363 shares	2,237,330
WisdomTree Investments Inc.	Common and Preferred Stock 409,165 shares	2,229,949
KAR Auction Services Inc.	Common and Preferred Stock 169,774 shares	2,215,551
Pfizer Inc.	Common and Preferred Stock 43,170 shares	2,212,031
Cardinal Health, Inc.	Common and Preferred Stock 28,562 shares	2,195,561
Belden Inc.	Common and Preferred Stock 30,100 shares	2,164,190
Edwards Lifesciences Corporation	Common and Preferred Stock 28,905 shares	2,156,602
Sally Beauty Holdings Inc.	Common and Preferred Stock 171,611 shares	2,148,570
BankUnited Inc.	Common and Preferred Stock 63,196 shares	2,146,768
Trinet Group Inc.	Common and Preferred Stock 30,915 shares	2,096,037
National Bank Holdings Corporation Class A	Common and Preferred Stock 49,343 shares	2,075,860
Monday.com Limited	Common and Preferred Stock 16,840 shares	2,054,480
Bio-Techne Corporation	Common and Preferred Stock 24,762 shares	2,052,275
Chemed Corporation	Common and Preferred Stock 4,014 shares	2,048,866
Teleflex Inc.	Common and Preferred Stock 8,179 shares	2,041,724
Albany International Corporation Class A	Common and Preferred Stock 20,589 shares	2,029,870
ALLETE Inc.	Common and Preferred Stock 31,453 shares	2,029,033
Altra Industrial Motion Corporation	Common and Preferred Stock 33,857 shares	2,022,956
Kirby Corporation	Common and Preferred Stock 31,436 shares	2,022,907
Advanced Energy Industries Inc.	Common and Preferred Stock 23,559 shares	2,020,891
KBR, Inc.	Common and Preferred Stock 37,703 shares	1,990,718
Smartsheet Inc. Class A	Common and Preferred Stock 50,428 shares	1,984,846
Matson Inc.	Common and Preferred Stock 30,994 shares	1,937,435
Prosperity Bancshares Inc.	Common and Preferred Stock 26,634 shares	1,935,759
McKesson Corporation	Common and Preferred Stock 5,107 shares	1,915,738
ASGN Inc.	Common and Preferred Stock 23,447 shares	1,910,462
Charter Communications, Inc. Class A	Common and Preferred Stock 5,561 shares	1,885,735
UBS Group AG	Common and Preferred Stock 98,304 shares	1,835,336
Nasdaq Inc.	Common and Preferred Stock 29,720 shares	1,823,322
Carlisle Companies Inc.	Common and Preferred Stock 7,570 shares	1,783,871
Under Armour Inc. Class C	Common and Preferred Stock 199,166 shares	1,776,561
WillScot Mobile Mini Holdings Corporation	Common and Preferred Stock 39,235 shares	1,772,245
NRG Energy Inc.	Common and Preferred Stock 55,079 shares	1,752,614
Airbnb Inc. Class A	Common and Preferred Stock 20,479 shares	1,750,955
Range Resources Corporation	Common and Preferred Stock 69,089 shares	1,728,607
Box Inc. Class A	Common and Preferred Stock 55,403 shares	1,724,695

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

Identity of Issue	Description of Investment	Current Value
Shell plc	Common and Preferred Stock 30,156 shares	1,717,384
Copart Inc.	Common and Preferred Stock 27,794 shares	1,692,377
Dynatrace Inc.	Common and Preferred Stock 43,914 shares	1,681,906
First American Financial Corporation	Common and Preferred Stock 32,116 shares	1,680,951
Okta Inc.	Common and Preferred Stock 24,570 shares	1,678,868
Supernus Pharmaceuticals Inc.	Common and Preferred Stock 46,670 shares	1,664,719
Consensus Cloud Solutions Inc.	Common and Preferred Stock 30,766 shares	1,653,980
Grand Canyon Education Inc.	Common and Preferred Stock 15,632 shares	1,651,677
Signature Bank	Common and Preferred Stock 14,292 shares	1,646,724
Diamondback Energy Inc.	Common and Preferred Stock 11,729 shares	1,604,293
Dolby Laboratories Inc.	Common and Preferred Stock 22,713 shares	1,602,175
Graco Inc.	Common and Preferred Stock 23,519 shares	1,581,888
Mednax Inc.	Common and Preferred Stock 105,685 shares	1,570,479
Barnes Group Inc.	Common and Preferred Stock 38,396 shares	1,568,469
Veracyte Inc.	Common and Preferred Stock 65,740 shares	1,560,010
Itron Inc.	Common and Preferred Stock 29,820 shares	1,510,383
Cohen & Steers Inc.	Common and Preferred Stock 23,380 shares	1,509,413
Generac Holdings Inc.	Common and Preferred Stock 14,824 shares	1,492,184
Woodward Inc.	Common and Preferred Stock 15,407 shares	1,488,470
AptarGroup Inc.	Common and Preferred Stock 13,507 shares	1,485,500
Prestige Consumer Healthcare Inc.	Common and Preferred Stock 22,637 shares	1,417,076
Oceaneering International Inc.	Common and Preferred Stock 79,688 shares	1,393,743
10X Genomics Inc. Class A	Common and Preferred Stock 38,143 shares	1,389,931
Alamos Gold Inc. Class A	Common and Preferred Stock 134,644 shares	1,361,251
Encompass Health Corporation	Common and Preferred Stock 22,418 shares	1,340,821
Hanesbrands Inc.	Common and Preferred Stock 210,033 shares	1,335,810
BRP Group Inc. Class A	Common and Preferred Stock 53,100 shares	1,334,934
NexTier Oilfield Solutions Inc.	Common and Preferred Stock 143,399 shares	1,325,007
Monro Inc.	Common and Preferred Stock 29,216 shares	1,320,563
Markel Corporation Holding Company	Common and Preferred Stock 988 shares	1,301,680
Knowles Corporation	Common and Preferred Stock 79,062 shares	1,298,198
John Bean Technologies Corporation	Common and Preferred Stock 14,214 shares	1,298,165
TreeHouse Foods Inc.	Common and Preferred Stock 26,175 shares	1,292,522
SpringWorks Therapeutics Inc.	Common and Preferred Stock 49,572 shares	1,289,368
ACI Worldwide Inc.	Common and Preferred Stock 54,754 shares	1,259,342
Teledyne Technologies Inc.	Common and Preferred Stock 3,142 shares	1,256,517
Hexcel Corporation	Common and Preferred Stock 21,068 shares	1,239,852
C.H. Robinson Worldwide Inc.	Common and Preferred Stock 13,403 shares	1,227,179
Tronox Holdings PLC	Common and Preferred Stock 89,450 shares	1,226,360
8X8 Inc.	Common and Preferred Stock 282,654 shares	1,221,065
Matthews International Corporation Class A	Common and Preferred Stock 39,570 shares	1,204,511
Docusign Inc.	Common and Preferred Stock 21,309 shares	1,180,945
Ciena Corporation	Common and Preferred Stock 22,989 shares	1,171,979
United Community Bank Blairsville Georgia	Common and Preferred Stock 34,651 shares	1,171,204
Texas Capital Bancshares Inc.	Common and Preferred Stock 19,288 shares	1,163,259
Knight-Swift Transportation Holdings Inc. Class A	Common and Preferred Stock 22,172 shares	1,162,035
Helen Trustoy Limited	Common and Preferred Stock 10,461 shares	1,160,230
Nevro Corporation	Common and Preferred Stock 29,274 shares	1,159,250

Identity of Issue	Description of Investment	Current Value
Canada Goose Holdings Inc.	Common and Preferred Stock 64,676 shares	1,151,880
Agios Pharmaceuticals Inc.	Common and Preferred Stock 40,943 shares	1,149,679
Jacobs Solutions Inc.	Common and Preferred Stock 9,515 shares	1,142,466
Pacific Premier Bancorp Inc.	Common and Preferred Stock 35,433 shares	1,118,265
Nu Skin Enterprises Inc. Class A	Common and Preferred Stock 26,421 shares	1,113,909
Cimpress plc	Common and Preferred Stock 40,007 shares	1,104,593
Qualtrics International Inc.	Common and Preferred Stock 106,112 shares	1,101,443
Legend Biotech Corporation	Common and Preferred Stock 21,850 shares	1,090,752
NCR Corporation	Common and Preferred Stock 45,809 shares	1,072,389
World Wrestling Entertainment	Common and Preferred Stock 15,486 shares	1,061,101
CareDx Inc.	Common and Preferred Stock 92,240 shares	1,052,458
Omnicell Inc.	Common and Preferred Stock 20,497 shares	1,033,459
JBG SMITH Properties	Common and Preferred Stock 54,307 shares	1,030,747
Coherent Corporation	Common and Preferred Stock 29,321 shares	1,029,167
Summit Materials Inc.	Common and Preferred Stock 35,083 shares	996,019
SLR Investment Corporation	Common and Preferred Stock 71,426 shares	993,536
Sportradar Group	Common and Preferred Stock 97,923 shares	975,313
Aspen Technology Inc.	Common and Preferred Stock 4,552 shares	934,981
Farfetch Limited Class A	Common and Preferred Stock 197,603 shares	934,662
Arvinas Inc.	Common and Preferred Stock 27,313 shares	934,378
Tenable Holdings Inc.	Common and Preferred Stock 24,130 shares	920,560
Azekpany Inc.	Common and Preferred Stock 44,814 shares	910,620
Sotera Health Company	Common and Preferred Stock 107,361 shares	894,317
Haemonetics Corporation	Common and Preferred Stock 11,304 shares	889,060
IAA Spinco Inc.	Common and Preferred Stock 21,860 shares	874,400
iShares Russell Mid-Cap ETF	Mutual Fund 12,931 units	872,196
J & J Snack Foods Corporation	Common and Preferred Stock 5,824 shares	871,911
Mid-American Apartment Communities Inc.	Common and Preferred Stock 5,529 shares	867,998
Align Technology Inc.	Common and Preferred Stock 4,052 shares	854,567
PacWest Bancorp	Common and Preferred Stock 36,876 shares	846,304
Relay Therapeutics Inc.	Common and Preferred Stock 56,259 shares	840,509
Middleby Corporation	Common and Preferred Stock 6,260 shares	838,214
Sumo Logic Inc.	Common and Preferred Stock 103,469 shares	838,099
AZZ Inc.	Common and Preferred Stock 20,238 shares	813,568
NorthWestern Corp	Common and Preferred Stock 13,518 shares	802,158
Doximity Inc.	Common and Preferred Stock 23,727 shares	796,278
Infinera Corporation	Common and Preferred Stock 116,508 shares	785,264
Silgan Holdings Inc.	Common and Preferred Stock 14,994 shares	777,289
Heartland Express Inc.	Common and Preferred Stock 49,353 shares	757,075
Flowserve Corporation	Common and Preferred Stock 24,431 shares	749,543
Wolverine World Wide Inc.	Common and Preferred Stock 68,253 shares	746,005
C4 Therapeutics Inc.	Common and Preferred Stock 125,856 shares	742,550
Fox Factory Holding Corporation	Common and Preferred Stock 8,050 shares	734,402
Harsco Corporation	Common and Preferred Stock 115,479 shares	726,363
Axogen Inc.	Common and Preferred Stock 72,359 shares	722,143
IPG Photonics Corporation	Common and Preferred Stock 7,558 shares	715,516

Identity of Issue	Description of Investment	Current Value	
Rocket Lab USA Inc.	Common and Preferred Stock 187,771 shares	707,897	
KB Home	Common and Preferred Stock 21,949 shares	699,076	
iShares Core S&P Small-Cap ETF	Mutual Fund 7,279 units	688,885	
Herbalife Nutrition Limited	Common and Preferred Stock 45,097 shares	671,043	
Banner Corporation	Common and Preferred Stock 10,522 shares	664,990	
1-800-FLOWERS.COM Inc. Class A	Common and Preferred Stock 68,553 shares	655,367	
STAG Industrial Inc.	Common and Preferred Stock 20,115 shares	649,916	
WSFS Financial Corporation	Common and Preferred Stock 14,323 shares	649,405	
Coherus BioSciences Inc.	Common and Preferred Stock 79,387 shares	628,745	
Albemarle Corporation	Common and Preferred Stock 2,874 shares	623,256	
Sonos Inc.	Common and Preferred Stock 36,282 shares	613,166	
Boston Properties Inc.	Common and Preferred Stock 8,654 shares	584,837	
Mercury Systems Inc.	Common and Preferred Stock 13,048 shares	583,768	
Designer Brands Inc. Class A	Common and Preferred Stock 58,411 shares	571,260	
Berkshire Hills Bancorp Inc.	Common and Preferred Stock 16,638 shares	497,476	
Stevanato Group S.p.A.	Common and Preferred Stock 25,257 shares	453,868	
CalAmp Corporation	Common and Preferred Stock 101,302 shares	453,833	
PetIQ Inc. Class A	Common and Preferred Stock 46,737 shares	430,915	
Adeia Inc.	Common and Preferred Stock 38,844 shares	368,241	
iShares Russell 2000 ETF	Mutual Fund 2,080 units	362,669	
Rogers Corporation	Common and Preferred Stock 2,628 shares	313,626	
Sterling Check Corporation	Common and Preferred Stock 20,214 shares	312,711	
Istar Inc.	Common and Preferred Stock 33,007 shares	251,843	
Enhabit Inc.	Common and Preferred Stock 11,204 shares	147,445	
eHealth Inc.	Common and Preferred Stock 20,473 shares	99,089	
Safehold Inc.	Common and Preferred Stock 2,526 shares	72,294	
Total U.S. Equity Active Asset Class			1,178,441,898
U.S. Equity Index Asset Class:			
NT Collective Russell 3000 Index Fund / Non Lending*	Collective Trust Fund 16,720,645 units	995,363,305	
Gaming & Leisure Properties Inc.	Common and Preferred Stock 155 shares	8,074	
CTO Realty Growth Inc.	Common and Preferred Stock 256 shares	4,680	
NT Collective Short Term Investment Fund*	Collective Trust Fund 240 units	240	
Total U.S. Equity Index Asset Class			995,376,299
International Equity Active Class:			
Mawer International Equity Collective Investment Trust Class B*	Collective Trust Fund 10,477,105 units	149,386,751	
Polaris Capital Management Collective Investment Trust International Value Collective Fund*	Collective Trust Fund 14,813,877 units	147,792,129	
Reliance Trust Instituitional Retirement Trust GQG Partners International Equity Fund Series 11 Class C*	Collective Trust Fund 9,248,142 units	113,567,187	
Dodge & Cox International Fund*	Mutual Fund 1,970,197 units	84,935,175	
Wilmington Trust Collective Investment Trust / Jennison International Equity Opportunities CIT Class J*	Collective Trust Fund 10,676,640 units	82,103,363	
NT Collective MSCI All Country World Index (ACWI) ex/US Index Fund / Non Lending*	Collective Trust Fund 161,967 units	29,964,989	
Total International Equity Active Asset Class			607,749,594

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

Identity of Issue	Description of Investment	Current Value	
International Equity Index Asset Class:			
NT Collective All Country World Index (ACWI) Ex/US Fund / Non Lending*	Collective Trust Fund 1,555,973 units	262,788,273	
Blackrock FTSE RAFI Emerging Index Non Lendable Fund F	Collective Trust Fund 21,268 units	112,477	
Total International Equity Index Asset Class			262,900,750
Participant Self-Directed Accounts	Various Investments	643,464,674	
			643,464,674
Notes Receivable from Participants*	Interest Rate 4.25% - 9.25%	30,051,655	
			30,051,655
Other:			
BIF Money Fund*	Cash and Cash Equivalents 1,384,946 units	1,384,946	
ML Vanguard Federal Money Market Forfeiture / Settlement*	Cash and Cash Equivalents 479,576 units	479,576	
NT Collective Short Term Investment Fund*	Collective Trust Fund 314,347 units	314,347	
Exide Technologies	Common and Preferred Stock 35,683 shares	24,978	
Total Other			2,203,847
Grand Total			$ 6,001,283,933

* Indicates party-in-interest

Supplemental Schedule
Amgen Retirement and Savings Plan
EIN: 95-3540776 Plan: #001
As of December 31, 2022
Schedule H, line 4i – Schedule of Assets (Held at End of Year)

Identity of Issue	Description of Investment	Current Value	
Amgen stock*	Employer Securities 1,414,803 shares	$ 371,583,932	
			$ 371,583,932
Capital Preservation Asset Class:			
Galliard Intermediate Core Fund L*	Collective Trust Fund 20,795,318 units	274,598,013	
Galliard Short Core Fund F*	Collective Trust Fund 13,343,038 units	199,685,238	
Metropolitan Life Contract*	Insurance Separate Accounts Investment Contract 1,028,224 units	119,248,796	
Galliard Short-Term Investment Fund A S*	Collective Trust Fund 34,682,824 units	34,682,824	
NT Collective Short Term Investment Fund*	Collective Trust Fund 32,360,600 units	32,360,600	
Wrapper Contracts		—	
Total Capital Preservation Asset Class			660,575,471
Fixed Income Active Asset Class:			
Metlife Core Plus Collective Fund*	Collective Trust Fund 7,794,045 units	72,484,622	
Wellington Core Bond Plus Portfolio Collective Investment Trust II*	Collective Trust Fund 6,549,210 units	72,303,276	
Schroder Global Strategic Bond Trust Class W*	Collective Trust Fund 2,357,204 units	23,218,462	
Putnam Absolute Return Fixed Income Fund*	Collective Trust Fund 315,355 units	23,162,850	
NT Collective Aggregate Bond Index Fund / Non Lending*	Collective Trust Fund 109,420 units	15,384,403	
Banc America Alternative Loan Trust Series 2004-6 Class 4A 15.0% Due 10-25-2048*	Corporate Bond 2,379 units	1,901	
GMAC Mortgage Loan Trust 2003/J10 4.75% Due 01/25/2019	Corporate Bond 1,132 units	1,110	
Total Fixed Income Active Asset Class			206,556,624
Fixed Income Index Asset Class:			
NT Collective Aggregate Bond Index Fund / Non Lending*	Collective Trust Fund 7,413,792 units	1,042,379,189	
Total Fixed Income Index Asset Class			1,042,379,189
U.S. Equity Active Asset Class:			
NT Collective Russell 3000 Index Fund / Non Lending*	Collective Trust Fund 916,387 units	54,551,618	
NT Collective Short Term Investment Fund*	Collective Trust Fund 34,267,621 units	34,267,621	
Visa Inc. Class A	Common and Preferred Stock 149,743 shares	31,110,606	
Microsoft Corporation	Common and Preferred Stock 103,101 shares	24,725,682	
General Electric	Common and Preferred Stock 241,565 shares	20,240,731	
Amazon.com, Inc.	Common and Preferred Stock 203,990 shares	17,135,160	
CoStar Group Inc.	Common and Preferred Stock 201,426 shares	15,566,201	
TransDigm Group Inc.	Common and Preferred Stock 21,359 shares	13,448,694	
Intuit	Common and Preferred Stock 33,709 shares	13,120,217	

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

Identity of Issue	Description of Investment	Current Value
Netflix, Inc.	Common and Preferred Stock 43,034 shares	12,689,866
Ball Corporation	Common and Preferred Stock 224,791 shares	11,495,812
Amazon Inc.	Common and Preferred Stock 127,655 shares	10,723,020
DEX Inc.	Common and Preferred Stock 94,556 shares	10,707,521
The Carlyle Group Inc.	Common and Preferred Stock 340,558 shares	10,162,251
Heico Corporation Class A	Common and Preferred Stock 84,583 shares	10,137,273
UnitedHealth Group Inc.	Common and Preferred Stock 18,842 shares	9,989,652
Alphabet Inc.	Common and Preferred Stock 111,264 shares	9,872,455
ServiceNow, Inc.	Common and Preferred Stock 25,225 shares	9,794,111
Mastercard Inc. Class A	Common and Preferred Stock 27,981 shares	9,729,833
KKR & Company Inc. Class A	Common and Preferred Stock 203,546 shares	9,448,605
Jones Lang LaSalle Inc.	Common and Preferred Stock 59,246 shares	9,442,035
Skyworks Solutions Inc	Common and Preferred Stock 101,963 shares	9,291,888
Qorvo, Inc.	Common and Preferred Stock 101,499 shares	9,199,869
Citigroup Inc.	Common and Preferred Stock 201,874 shares	9,130,761
Danaher Corporation	Common and Preferred Stock 34,228 shares	9,084,796
Skechers USA Inc. Class A	Common and Preferred Stock 216,117 shares	9,066,108
Dow Inc.	Common and Preferred Stock 169,567 shares	8,544,481
Workday Inc. Class A	Common and Preferred Stock 50,041 shares	8,373,361
Salesforce.com Inc.	Common and Preferred Stock 63,086 shares	8,364,573
MSCI Inc.	Common and Preferred Stock 17,624 shares	8,198,156
Alphabet Inc. Class C	Common and Preferred Stock 90,086 shares	7,993,331
SS&C Technologies Holdings Inc.	Common and Preferred Stock 150,989 shares	7,860,487
Yum! Brands Inc.	Common and Preferred Stock 61,326 shares	7,854,634
Thermo Fisher Corporation	Common and Preferred Stock 14,144 shares	7,788,959
S&P Global Inc	Common and Preferred Stock 23,194 shares	7,768,598
Lear Corporation	Common and Preferred Stock 60,595 shares	7,514,992
Applied Materials Inc.	Common and Preferred Stock 76,950 shares	7,493,391
Ecolab Inc.	Common and Preferred Stock 49,495 shares	7,204,492
salesforce.com, inc.	Common and Preferred Stock 54,265 shares	7,194,996
Wells Fargo & Company*	Common and Preferred Stock 173,140 shares	7,148,951
Block, Inc.	Common and Preferred Stock 108,121 shares	6,794,324
Merit Medical Systems Inc.	Common and Preferred Stock 95,329 shares	6,732,134
Equinix Inc.	Common and Preferred Stock 10,222 shares	6,695,717
Ares Management Corporation	Common and Preferred Stock 97,564 shares	6,677,280
Henry Schein Inc.	Common and Preferred Stock 82,753 shares	6,609,482
Match Group Inc.	Common and Preferred Stock 158,284 shares	6,567,203
Anthem Inc.	Common and Preferred Stock 12,669 shares	6,498,817
Autodesk Inc.	Common and Preferred Stock 34,741 shares	6,492,051
Fresenius Medical Care	Common and Preferred Stock 394,430 shares	6,444,986
QuidelOrtho Corporation	Common and Preferred Stock 75,205 shares	6,442,812

Identity of Issue	Description of Investment	Current Value
Regeneron Pharmaceuticals, Inc.	Common and Preferred Stock 8,886 shares	6,411,160
Edison International	Common and Preferred Stock 100,177 shares	6,373,261
Intuitive Surgical, Inc.	Common and Preferred Stock 23,943 shares	6,353,275
Capital One Financial Corporation	Common and Preferred Stock 67,296 shares	6,255,836
Iqvia Holdings Inc.	Common and Preferred Stock 30,323 shares	6,212,879
Newell Brands Inc.	Common and Preferred Stock 471,754 shares	6,170,542
STERIS plc	Common and Preferred Stock 33,346 shares	6,158,673
Clean Harbors Inc.	Common and Preferred Stock 53,656 shares	6,123,223
CBRE Group Inc. Class A	Common and Preferred Stock 79,495 shares	6,117,935
NICE Limited	Common and Preferred Stock 31,447 shares	6,047,258
Wabtec Corporation	Common and Preferred Stock 60,293 shares	6,017,844
The Sherwin-Williams Company	Common and Preferred Stock 25,252 shares	5,993,057
MetLife Inc.*	Common and Preferred Stock 81,528 shares	5,900,181
Lam Research Corporation	Common and Preferred Stock 13,971 shares	5,872,011
Ritchie Bros. Auctioneers Inc.	Common and Preferred Stock 100,945 shares	5,837,649
Waste Connections Inc.	Common and Preferred Stock 42,173 shares	5,590,453
Aon PLC	Common and Preferred Stock 18,608 shares	5,585,005
Cognizant Technology Solutions Corporation Class A	Common and Preferred Stock 95,458 shares	5,459,243
Starbucks Corporation	Common and Preferred Stock 54,776 shares	5,433,779
Halozyme Therapeutics Inc.	Common and Preferred Stock 94,436 shares	5,373,408
Equitable Holdings Inc.	Common and Preferred Stock 184,345 shares	5,290,702
American Express Company	Common and Preferred Stock 35,666 shares	5,269,652
FleetCor Technologies, Inc.	Common and Preferred Stock 28,174 shares	5,175,000
JP Morgan Chase & Company	Common and Preferred Stock 37,836 shares	5,073,808
FMC Corporation	Common and Preferred Stock 40,278 shares	5,026,694
Voya Financial Inc.	Common and Preferred Stock 81,099 shares	4,986,778
Synopsys Inc.	Common and Preferred Stock 15,542 shares	4,962,405
Sensata Technologies BV Holding	Common and Preferred Stock 122,013 shares	4,926,885
Gildan Activewear Inc.	Common and Preferred Stock 178,471 shares	4,890,105
Adobe Systems Inc.	Common and Preferred Stock 14,312 shares	4,816,417
Alight Inc. Class A	Common and Preferred Stock 572,144 shares	4,783,124
Booking Holdings Inc.	Common and Preferred Stock 2,371 shares	4,778,229
Shopify Inc	Common and Preferred Stock 137,098 shares	4,758,672
Ametek Inc.	Common and Preferred Stock 33,886 shares	4,734,552
Charles River Laboratories International Inc.	Common and Preferred Stock 21,571 shares	4,700,321
Amdocs Limited	Common and Preferred Stock 51,242 shares	4,657,898
American International Group Inc.*	Common and Preferred Stock 71,278 shares	4,507,621
Axis Capital Holdings Limited	Common and Preferred Stock 82,372 shares	4,462,091
J2 Global Inc.	Common and Preferred Stock 56,357 shares	4,457,839
Dollar General Corporation	Common and Preferred Stock 18,034 shares	4,440,873
Frontdoor Inc.	Common and Preferred Stock 210,580 shares	4,380,064
Uber Technologies Inc.	Common and Preferred Stock 176,662 shares	4,368,851
Bristol Myers Squibb	Common and Preferred Stock 60,424 shares	4,347,507
Warner Music Group Corporation Class A	Common and Preferred Stock 123,966 shares	4,341,289

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

Identity of Issue	Description of Investment	Current Value
Abbott Laboratories	Common and Preferred Stock 39,208 shares	4,304,646
Atlassian Corporation	Common and Preferred Stock 33,396 shares	4,297,397
Bank of America Corporation*	Common and Preferred Stock 129,352 shares	4,284,138
Euronet Worldwide Inc.	Common and Preferred Stock 44,111 shares	4,163,196
Amphenol Corporation Class A	Common and Preferred Stock 53,002 shares	4,035,572
Snowflake Inc. Class A	Common and Preferred Stock 27,936 shares	4,009,933
Floor & Decor Holdings Inc.	Common and Preferred Stock 56,999 shares	3,968,840
Lam Resh Corporation	Common and Preferred Stock 9,400 shares	3,950,820
BWX Technologies Inc.	Common and Preferred Stock 65,887 shares	3,826,717
Hewlett Packard Enterprise Company	Common and Preferred Stock 236,275 shares	3,770,949
IDEX Corporation	Common and Preferred Stock 16,402 shares	3,745,069
NOV Inc.	Common and Preferred Stock 174,258 shares	3,640,250
Catalent Inc.	Common and Preferred Stock 79,418 shares	3,574,604
LKQ Corporation	Common and Preferred Stock 66,504 shares	3,551,979
Entegris Inc.	Common and Preferred Stock 53,774 shares	3,527,037
UGI Corporation	Common and Preferred Stock 94,888 shares	3,517,498
Churchill Downs Inc.	Common and Preferred Stock 16,560 shares	3,501,281
Cooper Companies Inc.	Common and Preferred Stock 10,414 shares	3,443,597
HealthEquity Inc.	Common and Preferred Stock 55,442 shares	3,417,445
Cloudflare Inc.	Common and Preferred Stock 75,256 shares	3,402,324
Mohawk Industries Inc.	Common and Preferred Stock 32,835 shares	3,356,394
Trimble Inc.	Common and Preferred Stock 65,797 shares	3,326,696
Datadog Inc.	Common and Preferred Stock 45,145 shares	3,318,158
Ingredion Inc.	Common and Preferred Stock 33,198 shares	3,251,080
Sarepta Therapeutics Inc.	Common and Preferred Stock 25,083 shares	3,250,255
Align Technology, Inc.	Common and Preferred Stock 15,235 shares	3,213,062
Huntington Bancshares Inc.	Common and Preferred Stock 226,407 shares	3,192,339
On Semiconductor Corporation	Common and Preferred Stock 50,175 shares	3,129,415
Acadia Healthcare Company Inc.	Common and Preferred Stock 37,658 shares	3,100,007
GlobalFoundries Inc.	Common and Preferred Stock 56,754 shares	3,058,473
ACV Auctions Inc. Class A	Common and Preferred Stock 362,242 shares	2,974,007
Momentive Global Inc.	Common and Preferred Stock 420,511 shares	2,943,577
PVH Corporation	Common and Preferred Stock 41,692 shares	2,943,038
Goldman Sachs Group Inc.	Common and Preferred Stock 8,531 shares	2,929,375
Brown & Brown Inc.	Common and Preferred Stock 51,117 shares	2,912,135
Cabot Corporation	Common and Preferred Stock 43,137 shares	2,883,277
Forward Air Corporation	Common and Preferred Stock 27,433 shares	2,877,447
National Retail Properties Inc.	Common and Preferred Stock 61,130 shares	2,797,309
Halliburton Company	Common and Preferred Stock 70,102 shares	2,758,514
Carter Inc.	Common and Preferred Stock 36,956 shares	2,757,287
Magna International Inc.	Common and Preferred Stock 46,742 shares	2,625,966
DoorDash Inc. Class A	Common and Preferred Stock 53,739 shares	2,623,538
Dycom Industries Inc.	Common and Preferred Stock 27,825 shares	2,604,420
Nvidia Corporation	Common and Preferred Stock 17,798 shares	2,601,000
Western Alliance Bancorporation	Common and Preferred Stock 43,353 shares	2,582,105
FTI Consulting Inc.	Common and Preferred Stock 16,067 shares	2,551,440
Tennant Company	Common and Preferred Stock 40,921 shares	2,519,506
MACOM Technology Solutions Holdings Inc.	Common and Preferred Stock 39,895 shares	2,512,587

Identity of Issue	Description of Investment	Current Value
ZipRecruiter Inc. Class A	Common and Preferred Stock 152,341 shares	2,501,439
CarGurus Inc. Class A	Common and Preferred Stock 178,026 shares	2,494,144
N-Able Technologies International Inc.	Common and Preferred Stock 239,102 shares	2,457,969
Keysight Technologies Inc.	Common and Preferred Stock 14,214 shares	2,431,589
Gartner Inc.	Common and Preferred Stock 7,212 shares	2,424,242
Certara Inc.	Common and Preferred Stock 149,505 shares	2,402,545
Sea Limited	Common and Preferred Stock 45,514 shares	2,368,093
LPL Financial Holdings Inc.	Common and Preferred Stock 10,540 shares	2,278,432
Huron Consulting Group Inc.	Common and Preferred Stock 31,374 shares	2,277,752
Graphic Packaging Holding Company	Common and Preferred Stock 100,972 shares	2,246,627
AerCap Holdings N.V.	Common and Preferred Stock 38,363 shares	2,237,330
WisdomTree Investments Inc.	Common and Preferred Stock 409,165 shares	2,229,949
KAR Auction Services Inc.	Common and Preferred Stock 169,774 shares	2,215,551
Pfizer Inc.	Common and Preferred Stock 43,170 shares	2,212,031
Cardinal Health, Inc.	Common and Preferred Stock 28,562 shares	2,195,561
Belden Inc.	Common and Preferred Stock 30,100 shares	2,164,190
Edwards Lifesciences Corporation	Common and Preferred Stock 28,905 shares	2,156,602
Sally Beauty Holdings Inc.	Common and Preferred Stock 171,611 shares	2,148,570
BankUnited Inc.	Common and Preferred Stock 63,196 shares	2,146,768
Trinet Group Inc.	Common and Preferred Stock 30,915 shares	2,096,037
National Bank Holdings Corporation Class A	Common and Preferred Stock 49,343 shares	2,075,860
Monday.com Limited	Common and Preferred Stock 16,840 shares	2,054,480
Bio-Techne Corporation	Common and Preferred Stock 24,762 shares	2,052,275
Chemed Corporation	Common and Preferred Stock 4,014 shares	2,048,866
Teleflex Inc.	Common and Preferred Stock 8,179 shares	2,041,724
Albany International Corporation Class A	Common and Preferred Stock 20,589 shares	2,029,870
ALLETE Inc.	Common and Preferred Stock 31,453 shares	2,029,033
Altra Industrial Motion Corporation	Common and Preferred Stock 33,857 shares	2,022,956
Kirby Corporation	Common and Preferred Stock 31,436 shares	2,022,907
Advanced Energy Industries Inc.	Common and Preferred Stock 23,559 shares	2,020,891
KBR, Inc.	Common and Preferred Stock 37,703 shares	1,990,718
Smartsheet Inc. Class A	Common and Preferred Stock 50,428 shares	1,984,846
Matson Inc.	Common and Preferred Stock 30,994 shares	1,937,435
Prosperity Bancshares Inc.	Common and Preferred Stock 26,634 shares	1,935,759
McKesson Corporation	Common and Preferred Stock 5,107 shares	1,915,738
ASGN Inc.	Common and Preferred Stock 23,447 shares	1,910,462
Charter Communications, Inc. Class A	Common and Preferred Stock 5,561 shares	1,885,735
UBS Group AG	Common and Preferred Stock 98,304 shares	1,835,336
Nasdaq Inc.	Common and Preferred Stock 29,720 shares	1,823,322
Carlisle Companies Inc.	Common and Preferred Stock 7,570 shares	1,783,871
Under Armour Inc. Class C	Common and Preferred Stock 199,166 shares	1,776,561
WillScot Mobile Mini Holdings Corporation	Common and Preferred Stock 39,235 shares	1,772,245
NRG Energy Inc.	Common and Preferred Stock 55,079 shares	1,752,614
Airbnb Inc. Class A	Common and Preferred Stock 20,479 shares	1,750,955
Range Resources Corporation	Common and Preferred Stock 69,089 shares	1,728,607
Box Inc. Class A	Common and Preferred Stock 55,403 shares	1,724,695

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

Identity of Issue	Description of Investment	Current Value
Shell plc	Common and Preferred Stock 30,156 shares	1,717,384
Copart Inc.	Common and Preferred Stock 27,794 shares	1,692,377
Dynatrace Inc.	Common and Preferred Stock 43,914 shares	1,681,906
First American Financial Corporation	Common and Preferred Stock 32,116 shares	1,680,951
Okta Inc.	Common and Preferred Stock 24,570 shares	1,678,868
Supernus Pharmaceuticals Inc.	Common and Preferred Stock 46,670 shares	1,664,719
Consensus Cloud Solutions Inc.	Common and Preferred Stock 30,766 shares	1,653,980
Grand Canyon Education Inc.	Common and Preferred Stock 15,632 shares	1,651,677
Signature Bank	Common and Preferred Stock 14,292 shares	1,646,724
Diamondback Energy Inc.	Common and Preferred Stock 11,729 shares	1,604,293
Dolby Laboratories Inc.	Common and Preferred Stock 22,713 shares	1,602,175
Graco Inc.	Common and Preferred Stock 23,519 shares	1,581,888
Mednax Inc.	Common and Preferred Stock 105,685 shares	1,570,479
Barnes Group Inc.	Common and Preferred Stock 38,396 shares	1,568,469
Veracyte Inc.	Common and Preferred Stock 65,740 shares	1,560,010
Itron Inc.	Common and Preferred Stock 29,820 shares	1,510,383
Cohen & Steers Inc.	Common and Preferred Stock 23,380 shares	1,509,413
Generac Holdings Inc.	Common and Preferred Stock 14,824 shares	1,492,184
Woodward Inc.	Common and Preferred Stock 15,407 shares	1,488,470
AptarGroup Inc.	Common and Preferred Stock 13,507 shares	1,485,500
Prestige Consumer Healthcare Inc.	Common and Preferred Stock 22,637 shares	1,417,076
Oceaneering International Inc.	Common and Preferred Stock 79,688 shares	1,393,743
10X Genomics Inc. Class A	Common and Preferred Stock 38,143 shares	1,389,931
Alamos Gold Inc. Class A	Common and Preferred Stock 134,644 shares	1,361,251
Encompass Health Corporation	Common and Preferred Stock 22,418 shares	1,340,821
Hanesbrands Inc.	Common and Preferred Stock 210,033 shares	1,335,810
BRP Group Inc. Class A	Common and Preferred Stock 53,100 shares	1,334,934
NexTier Oilfield Solutions Inc.	Common and Preferred Stock 143,399 shares	1,325,007
Monro Inc.	Common and Preferred Stock 29,216 shares	1,320,563
Markel Corporation Holding Company	Common and Preferred Stock 988 shares	1,301,680
Knowles Corporation	Common and Preferred Stock 79,062 shares	1,298,198
John Bean Technologies Corporation	Common and Preferred Stock 14,214 shares	1,298,165
TreeHouse Foods Inc.	Common and Preferred Stock 26,175 shares	1,292,522
SpringWorks Therapeutics Inc.	Common and Preferred Stock 49,572 shares	1,289,368
ACI Worldwide Inc.	Common and Preferred Stock 54,754 shares	1,259,342
Teledyne Technologies Inc.	Common and Preferred Stock 3,142 shares	1,256,517
Hexcel Corporation	Common and Preferred Stock 21,068 shares	1,239,852
C.H. Robinson Worldwide Inc.	Common and Preferred Stock 13,403 shares	1,227,179
Tronox Holdings PLC	Common and Preferred Stock 89,450 shares	1,226,360
8X8 Inc.	Common and Preferred Stock 282,654 shares	1,221,065
Matthews International Corporation Class A	Common and Preferred Stock 39,570 shares	1,204,511
Docusign Inc.	Common and Preferred Stock 21,309 shares	1,180,945
Ciena Corporation	Common and Preferred Stock 22,989 shares	1,171,979
United Community Bank Blairsville Georgia	Common and Preferred Stock 34,651 shares	1,171,204
Texas Capital Bancshares Inc.	Common and Preferred Stock 19,288 shares	1,163,259
Knight-Swift Transportation Holdings Inc. Class A	Common and Preferred Stock 22,172 shares	1,162,035
Helen Trustoy Limited	Common and Preferred Stock 10,461 shares	1,160,230
Nevro Corporation	Common and Preferred Stock 29,274 shares	1,159,250

Identity of Issue	Description of Investment	Current Value
Canada Goose Holdings Inc.	Common and Preferred Stock 64,676 shares	1,151,880
Agios Pharmaceuticals Inc.	Common and Preferred Stock 40,943 shares	1,149,679
Jacobs Solutions Inc.	Common and Preferred Stock 9,515 shares	1,142,466
Pacific Premier Bancorp Inc.	Common and Preferred Stock 35,433 shares	1,118,265
Nu Skin Enterprises Inc. Class A	Common and Preferred Stock 26,421 shares	1,113,909
Cimpress plc	Common and Preferred Stock 40,007 shares	1,104,593
Qualtrics International Inc.	Common and Preferred Stock 106,112 shares	1,101,443
Legend Biotech Corporation	Common and Preferred Stock 21,850 shares	1,090,752
NCR Corporation	Common and Preferred Stock 45,809 shares	1,072,389
World Wrestling Entertainment	Common and Preferred Stock 15,486 shares	1,061,101
CareDx Inc.	Common and Preferred Stock 92,240 shares	1,052,458
Omnicell Inc.	Common and Preferred Stock 20,497 shares	1,033,459
JBG SMITH Properties	Common and Preferred Stock 54,307 shares	1,030,747
Coherent Corporation	Common and Preferred Stock 29,321 shares	1,029,167
Summit Materials Inc.	Common and Preferred Stock 35,083 shares	996,019
SLR Investment Corporation	Common and Preferred Stock 71,426 shares	993,536
Sportradar Group	Common and Preferred Stock 97,923 shares	975,313
Aspen Technology Inc.	Common and Preferred Stock 4,552 shares	934,981
Farfetch Limited Class A	Common and Preferred Stock 197,603 shares	934,662
Arvinas Inc.	Common and Preferred Stock 27,313 shares	934,378
Tenable Holdings Inc.	Common and Preferred Stock 24,130 shares	920,560
Azekpany Inc.	Common and Preferred Stock 44,814 shares	910,620
Sotera Health Company	Common and Preferred Stock 107,361 shares	894,317
Haemonetics Corporation	Common and Preferred Stock 11,304 shares	889,060
IAA Spinco Inc.	Common and Preferred Stock 21,860 shares	874,400
iShares Russell Mid-Cap ETF	Mutual Fund 12,931 units	872,196
J & J Snack Foods Corporation	Common and Preferred Stock 5,824 shares	871,911
Mid-American Apartment Communities Inc.	Common and Preferred Stock 5,529 shares	867,998
Align Technology Inc.	Common and Preferred Stock 4,052 shares	854,567
PacWest Bancorp	Common and Preferred Stock 36,876 shares	846,304
Relay Therapeutics Inc.	Common and Preferred Stock 56,259 shares	840,509
Middleby Corporation	Common and Preferred Stock 6,260 shares	838,214
Sumo Logic Inc.	Common and Preferred Stock 103,469 shares	838,099
AZZ Inc.	Common and Preferred Stock 20,238 shares	813,568
NorthWestern Corp	Common and Preferred Stock 13,518 shares	802,158
Doximity Inc.	Common and Preferred Stock 23,727 shares	796,278
Infinera Corporation	Common and Preferred Stock 116,508 shares	785,264
Silgan Holdings Inc.	Common and Preferred Stock 14,994 shares	777,289
Heartland Express Inc.	Common and Preferred Stock 49,353 shares	757,075
Flowserve Corporation	Common and Preferred Stock 24,431 shares	749,543
Wolverine World Wide Inc.	Common and Preferred Stock 68,253 shares	746,005
C4 Therapeutics Inc.	Common and Preferred Stock 125,856 shares	742,550
Fox Factory Holding Corporation	Common and Preferred Stock 8,050 shares	734,402
Harsco Corporation	Common and Preferred Stock 115,479 shares	726,363
Axogen Inc.	Common and Preferred Stock 72,359 shares	722,143
IPG Photonics Corporation	Common and Preferred Stock 7,558 shares	715,516

Identity of Issue	Description of Investment	Current Value	
Rocket Lab USA Inc.	Common and Preferred Stock 187,771 shares	707,897	
KB Home	Common and Preferred Stock 21,949 shares	699,076	
iShares Core S&P Small-Cap ETF	Mutual Fund 7,279 units	688,885	
Herbalife Nutrition Limited	Common and Preferred Stock 45,097 shares	671,043	
Banner Corporation	Common and Preferred Stock 10,522 shares	664,990	
1-800-FLOWERS.COM Inc. Class A	Common and Preferred Stock 68,553 shares	655,367	
STAG Industrial Inc.	Common and Preferred Stock 20,115 shares	649,916	
WSFS Financial Corporation	Common and Preferred Stock 14,323 shares	649,405	
Coherus BioSciences Inc.	Common and Preferred Stock 79,387 shares	628,745	
Albemarle Corporation	Common and Preferred Stock 2,874 shares	623,256	
Sonos Inc.	Common and Preferred Stock 36,282 shares	613,166	
Boston Properties Inc.	Common and Preferred Stock 8,654 shares	584,837	
Mercury Systems Inc.	Common and Preferred Stock 13,048 shares	583,768	
Designer Brands Inc. Class A	Common and Preferred Stock 58,411 shares	571,260	
Berkshire Hills Bancorp Inc.	Common and Preferred Stock 16,638 shares	497,476	
Stevanato Group S.p.A.	Common and Preferred Stock 25,257 shares	453,868	
CalAmp Corporation	Common and Preferred Stock 101,302 shares	453,833	
PetIQ Inc. Class A	Common and Preferred Stock 46,737 shares	430,915	
Adeia Inc.	Common and Preferred Stock 38,844 shares	368,241	
iShares Russell 2000 ETF	Mutual Fund 2,080 units	362,669	
Rogers Corporation	Common and Preferred Stock 2,628 shares	313,626	
Sterling Check Corporation	Common and Preferred Stock 20,214 shares	312,711	
Istar Inc.	Common and Preferred Stock 33,007 shares	251,843	
Enhabit Inc.	Common and Preferred Stock 11,204 shares	147,445	
eHealth Inc.	Common and Preferred Stock 20,473 shares	99,089	
Safehold Inc.	Common and Preferred Stock 2,526 shares	72,294	
Total U.S. Equity Active Asset Class			1,178,441,898
U.S. Equity Index Asset Class:			
NT Collective Russell 3000 Index Fund / Non Lending*	Collective Trust Fund 16,720,645 units	995,363,305	
Gaming & Leisure Properties Inc.	Common and Preferred Stock 155 shares	8,074	
CTO Realty Growth Inc.	Common and Preferred Stock 256 shares	4,680	
NT Collective Short Term Investment Fund*	Collective Trust Fund 240 units	240	
Total U.S. Equity Index Asset Class			995,376,299
International Equity Active Class:			
Mawer International Equity Collective Investment Trust Class B*	Collective Trust Fund 10,477,105 units	149,386,751	
Polaris Capital Management Collective Investment Trust International Value Collective Fund*	Collective Trust Fund 14,813,877 units	147,792,129	
Reliance Trust Instituitional Retirement Trust GQG Partners International Equity Fund Series 11 Class C*	Collective Trust Fund 9,248,142 units	113,567,187	
Dodge & Cox International Fund*	Mutual Fund 1,970,197 units	84,935,175	
Wilmington Trust Collective Investment Trust / Jennison International Equity Opportunities CIT Class J*	Collective Trust Fund 10,676,640 units	82,103,363	
NT Collective MSCI All Country World Index (ACWI) ex/US Index Fund / Non Lending*	Collective Trust Fund 161,967 units	29,964,989	
Total International Equity Active Asset Class			607,749,594

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

Identity of Issue	Description of Investment	Current Value	
International Equity Index Asset Class:			
NT Collective All Country World Index (ACWI) Ex/US Fund / Non Lending*	Collective Trust Fund 1,555,973 units	262,788,273	
Blackrock FTSE RAFI Emerging Index Non Lendable Fund F	Collective Trust Fund 21,268 units	112,477	
Total International Equity Index Asset Class			262,900,750
Participant Self-Directed Accounts	Various Investments	643,464,674	
			643,464,674
Notes Receivable from Participants*	Interest Rate 4.25% - 9.25%	30,051,655	
			30,051,655
Other:			
BIF Money Fund*	Cash and Cash Equivalents 1,384,946 units	1,384,946	
ML Vanguard Federal Money Market Forfeiture / Settlement*	Cash and Cash Equivalents 479,576 units	479,576	
NT Collective Short Term Investment Fund*	Collective Trust Fund 314,347 units	314,347	
Exide Technologies	Common and Preferred Stock 35,683 shares	24,978	
Total Other			2,203,847
Grand Total			$ 6,001,283,933

* Indicates party-in-interest