

Form 5500

Annual Return/Report of Employee Benefit Plan

OMB Nos. 1210-0110 1210-0089

2024

This Form is Open to Public Inspection

Department of the Treasury Internal Revenue Service

Department of Labor Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

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.

Part I Annual Report Identification Information

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

- A This return/report is for: [] a multiemployer plan [] a multiple-employer plan... [X] a single-employer plan [] a DFE... B This return/report is: [] the first return/report [] the final return/report... C If the plan is a collectively-bargained plan... D Check box if filing under: [X] Form 5558 [] automatic extension... E If this is a retroactively adopted plan...

Part II Basic Plan Information—enter all requested information

1a Name of plan: LOWELL OBSERVATORY 403(B) RETIREMENT ANNUITY PLAN
1b Three-digit plan number (PN): 001
1c Effective date of plan: 07/01/1953
2a Plan sponsor's name, mailing address, city, state, and ZIP: 1400 W MARS HILL RD, FLAGSTAFF, AZ 86001-4470
2b Employer Identification Number (EIN): 86-0098918
2c Plan Sponsor's telephone number: 928-233-3290
2d Business code: 541700

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.

Table with 4 columns: SIGN HERE, Signature of plan administrator, Date, Enter name of individual signing as plan administrator. Includes rows for employer/plan sponsor and DFE.

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2024) v. 240311

3a Plan administrator's name and address <input checked="" type="checkbox"/> 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: a Sponsor's name c Plan Name	4b EIN	
	4d PN	
5 Total number of participants at the beginning of the plan year	5	302
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 a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits..... c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item) g(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....	6a(1)	130
	6a(2)	138
	6b	10
	6c	169
	6d	317
	6e	0
	6f	317
	6g(1)	291
	6g(2)	300
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:
2F 2S 2T

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)	9b Plan benefit arrangement (check all that apply)
(1) <input checked="" type="checkbox"/> Insurance	(1) <input checked="" type="checkbox"/> Insurance
(2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts	(2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts
(3) <input type="checkbox"/> Trust	(3) <input type="checkbox"/> Trust
(4) <input type="checkbox"/> General assets of the sponsor	(4) <input type="checkbox"/> 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	b General Schedules
(1) <input checked="" type="checkbox"/> R (Retirement Plan Information)	(1) <input checked="" type="checkbox"/> H (Financial Information)
(2) <input type="checkbox"/> MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary	(2) <input type="checkbox"/> I (Financial Information – Small Plan)
(3) <input type="checkbox"/> SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary	(3) <input checked="" type="checkbox"/> A (Insurance Information) – Number Attached <u>2</u>
(4) <input type="checkbox"/> DCG (Individual Plan Information) – Number Attached _____	(4) <input checked="" type="checkbox"/> C (Service Provider Information)
(5) <input type="checkbox"/> MEP (Multiple-Employer Retirement Plan Information)	(5) <input checked="" type="checkbox"/> D (DFE/Participating Plan Information)
	(6) <input type="checkbox"/> 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 2024 Form M-1 annual report. If the plan was not required to file the 2024 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 _____

(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	710010
5 Current value of plan's interest under this contract in separate accounts at year end.....	5	20190301

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** 549250

c Additions: (1) Contributions deposited during the year	7c(1)	63711
(2) Dividends and credits.....	7c(2)	0
(3) Interest credited during the year.....	7c(3)	18121
(4) Transferred from separate account	7c(4)	150021
(5) Other (specify below).....	7c(5)	5357

▶ ROLLOVER, LOANS, FORFEITURES

(6) Total additions **7c(6)** 237210

d Total of balance and additions (add lines **7b** and **7c(6)**) **7d** 786460

e Deductions:

(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)	52909
(2) Administration charge made by carrier.....	7e(2)	259
(3) Transferred to separate account	7e(3)	22144
(4) Other (specify below).....	7e(4)	1138

▶ ROLLOVER, LOANS, FORFEITURES

(5) Total deductions **7e(5)** 76450

f Balance at the end of the current year (subtract line **7e(5)** from line **7d**)..... **7f** 710010

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 <input type="checkbox"/> paid in cash, or <input type="checkbox"/> 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. ▶

<p>SCHEDULE A (Form 5500)</p> <p>Department of the Treasury Internal Revenue Service</p> <hr/> <p>Department of Labor Employee Benefits Security Administration</p> <hr/> <p>Pension Benefit Guaranty Corporation</p>	<p>Insurance Information</p> <p>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).</p> <p>▶ File as an attachment to Form 5500.</p> <p>▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).</p>	<p>OMB No. 1210-0110</p> <hr/> <p>2024</p> <hr/> <p>This Form is Open to Public Inspection</p>
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For calendar plan year 2024 or fiscal plan year beginning **01/01/2024** and ending **12/31/2024**

<p>A Name of plan LOWELL OBSERVATORY 403(B) RETIREMENT ANNUITY PLAN</p>	<p>B Three-digit plan number (PN) ▶</p>	<p>001</p>
<p>C Plan sponsor's name as shown on line 2a of Form 5500 LOWELL OBSERVATORY</p>	<p>D Employer Identification Number (EIN) 86-0098918</p>	

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
TIAA-CREF

(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
13-1624203	69345	365298	125	01/01/2024	12/31/2024

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
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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	6635489
5	Current value of plan's interest under this contract in separate accounts at year end.....	9539422
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) <input type="checkbox"/> individual policies (2) <input type="checkbox"/> group deferred annuity (3) <input type="checkbox"/> other (specify) ▶	
f	If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ▶ <input type="checkbox"/>	
7	Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)	
a	Type of contract: (1) <input type="checkbox"/> deposit administration (2) <input type="checkbox"/> immediate participation guarantee (3) <input checked="" type="checkbox"/> guaranteed investment (4) <input type="checkbox"/> other ▶	
b	Balance at the end of the previous year	7b 6707764
c	(1) Contributions deposited during the year	7c(1) 0
	(2) Dividends and credits.....	7c(2) 0
	(3) Interest credited during the year.....	7c(3) 300564
	(4) Transferred from separate account	7c(4) 52400
	(5) Other (specify below)..... ▶	7c(5) 0
	(6) Total additions	7c(6) 352964
d	Total of balance and additions (add lines 7b and 7c(6))	7d 7060728
e	Deductions:	
	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1) 267705
	(2) Administration charge made by carrier.....	7e(2) 0
	(3) Transferred to separate account	7e(3) 117785
	(4) Other (specify below)..... ▶ LOAN, ROLLOVER, FORFEITURES	7e(4) 39749
(5) Total deductions	7e(5) 425239	
f	Balance at the end of the current year (subtract line 7e(5) from line 7d).....	7f 6635489

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 <input type="checkbox"/> paid in cash, or <input type="checkbox"/> 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) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Service Provider 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.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection.
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For calendar plan year 2024 or fiscal plan year beginning **01/01/2024** and ending **12/31/2024**

A Name of plan LOWELL OBSERVATORY 403(B) RETIREMENT ANNUITY PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 LOWELL OBSERVATORY	D Employer Identification Number (EIN) 86-0098918	

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)..... 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

DWS	210 WEST 10TH STREET KANSAS CITY, MO 64105
-----	-----------------------------------------------

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

FIDELITY INVESTMENTS	82 DEVONSHIRE STREET BOSTON, MA 02109
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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

GOLDMAN SACHS	200 WEST STREET NEW YORK, NY 10282
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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

MUTUAL OF AMERICA	320 PARK AVE NEW YORK, NY 10022
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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

NEUBERGER BERMAN

1290 AVENUE OF THE AMERICAS
NEW YORK, NY 10104

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

INVESCO

11 GREENWAY PLAZA
STE. 2500
HOUSTON, TX 77046

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

T. ROWE PRICE

100 EAST PRATT STREET
BALTIMORE, MD 21202

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

VANGUARD

100 VANGUARD BOULEVARD
MALVERN, PA 19355

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

AMERICAN CENTURY INVESTMENTS

P.O. BOX 419200
4500 MAIN STREET
KANSAS CITY, MO 64141

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

MFS

111 HUNTINGTON AVENUE
BOSTON, MA 02199

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

DELAWARE FUNDS BY MACQUARIE

PO BOX 9876
PROVIDENCE, RI 02940

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

VICTORY CAPITAL MANAGEMENT INC.

15935 LA CANTERA PARKWAY
BUILDING TWO
SAN ANTONIO, TX 78256

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

PIMCO

840 NEWPORT CENTER DRIVE
SUITE 100
NEWPORT BEACH, CA 92660

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

AMERICAN FUNDS

333 SOUTH HOPE STREET
LOS ANGELES, CA 90071-1406

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

CALVERT RESEARCH AND MANAGEMENT

1825 CONNECTICUT AVENUE NW
SUITE 400
WASHINGTON, DC 20009

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

TIAA

13-1624203

(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)

MUTUAL OF AMERICA INVESTMENT CORP

320 PARK AVENUE
NEW YORK, NY 10022

(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?
12 15 37 65	RECORD KEEPER	2134	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	0	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

(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 <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>

(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 <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>

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) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small>	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.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection.
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

A Name of plan <u>LOWELL OBSERVATORY 403(B) RETIREMENT ANNUITY PLAN</u>	B Three-digit plan number (PN)	<u>001</u>
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 <u>LOWELL OBSERVATORY</u>	D Employer Identification Number (EIN) <u>86-0098918</u>	

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: <u>SEPARATE ACCOUNT NUMBER SA2</u>		
b Name of sponsor of entity listed in (a): <u>MUTUAL OF AMERICA</u>		
c EIN-PN <u>13-1614399-000</u>	d Entity code <u>P</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>20190301</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>TIAA REAL ESTATE</u>		
b Name of sponsor of entity listed in (a): <u>TIAA-CREF</u>		
c EIN-PN <u>13-1624203-004</u>	d Entity code <u>P</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>442405</u>
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
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)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
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)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
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)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
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)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
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)

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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)

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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)

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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)

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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)

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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)

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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)

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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)

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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)

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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)

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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)

SCHEDULE H (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	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 2024 This Form is Open to Public Inspection
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024	
A Name of plan LOWELL OBSERVATORY 403(B) RETIREMENT ANNUITY PLAN	B Three-digit plan number (PN) ▶ 001
C Plan sponsor's name as shown on line 2a of Form 5500 LOWELL OBSERVATORY	D Employer Identification Number (EIN) 86-0098918

Part I	Asset and Liability Statement
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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.

		(a) Beginning of Year	(b) End of Year
Assets			
a Total noninterest-bearing cash	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions	1b(1)	0	0
(2) Participant contributions	1b(2)	0	0
(3) Other	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)	0	0
(2) U.S. Government securities	1c(2)	0	0
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)	0	0
(B) All other	1c(3)(B)	0	0
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)	0	0
(B) Common	1c(4)(B)	0	0
(5) Partnership/joint venture interests	1c(5)	0	0
(6) Real estate (other than employer real property)	1c(6)	0	0
(7) Loans (other than to participants)	1c(7)	0	0
(8) Participant loans	1c(8)	0	0
(9) Value of interest in common/collective trusts	1c(9)	0	0
(10) Value of interest in pooled separate accounts	1c(10)	425827	442405
(11) Value of interest in master trust investment accounts	1c(11)	0	0
(12) Value of interest in 103-12 investment entities	1c(12)	0	0
(13) Value of interest in registered investment companies (e.g., mutual funds)	1c(13)	25312928	29287318
(14) Value of funds held in insurance company general account (unallocated contracts)	1c(14)	7257015	7345499
(15) Other	1c(15)	0	0

		(a) Beginning of Year	(b) End of Year
1d	Employer-related investments:		
(1)	Employer securities.....	1d(1)	
(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	32995770 37075222
Liabilities			
g	Benefit claims payable.....	1g	
h	Operating payables.....	1h	
i	Acquisition indebtedness.....	1i	
j	Other liabilities.....	1j	
k	Total liabilities (add all amounts in lines 1g through 1j).....	1k	0 0
Net Assets			
l	Net assets (subtract line 1k from line 1f).....	1l	32995770 37075222

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.

		(a) Amount	(b) Total
Income			
a	Contributions:		
(1)	Received or receivable in cash from: (A) Employers.....	2a(1)(A)	471728
	(B) Participants.....	2a(1)(B)	927637
	(C) Others (including rollovers).....	2a(1)(C)	0
(2)	Noncash contributions.....	2a(2)	0
(3)	Total contributions. Add lines 2a(1)(A), (B), (C), and line 2a(2).....	2a(3)	1399365
b	Earnings on investments:		
(1)	Interest:		
	(A) Interest-bearing cash (including money market accounts and certificates of deposit).....	2b(1)(A)	0
	(B) U.S. Government securities.....	2b(1)(B)	0
	(C) Corporate debt instruments.....	2b(1)(C)	0
	(D) Loans (other than to participants).....	2b(1)(D)	0
	(E) Participant loans.....	2b(1)(E)	0
	(F) Other.....	2b(1)(F)	318684
	(G) Total interest. Add lines 2b(1)(A) through (F).....	2b(1)(G)	318684
(2)	Dividends: (A) Preferred stock.....	2b(2)(A)	0
	(B) Common stock.....	2b(2)(B)	0
	(C) Registered investment company shares (e.g. mutual funds).....	2b(2)(C)	0
	(D) Total dividends. Add lines 2b(2)(A), (B), and (C).....	2b(2)(D)	0
(3)	Rents.....	2b(3)	
(4)	Net gain (loss) on sale of assets: (A) Aggregate proceeds.....	2b(4)(A)	0
	(B) Aggregate carrying amount (see instructions).....	2b(4)(B)	0
	(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result.....	2b(4)(C)	0
(5)	Unrealized appreciation (depreciation) of assets: (A) Real estate.....	2b(5)(A)	
	(B) Other.....	2b(5)(B)	0
	(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B).....	2b(5)(C)	0

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		0
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		2794501
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		0
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		0
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		1535031
c Other income	2c		
d Total income. Add all income amounts in column (b) and enter total	2d		6047581

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	1823182	
(2) To insurance carriers for the provision of benefits	2e(2)	141139	
(3) Other	2e(3)	2136	
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		1966457
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses:			
(1) Salaries and allowances	2i(1)		
(2) Contract administrator fees	2i(2)		
(3) Recordkeeping fees	2i(3)	0	
(4) IQPA audit fees	2i(4)	0	
(5) Investment advisory and investment management fees	2i(5)	0	
(6) Bank or trust company trustee/custodial fees	2i(6)	0	
(7) Actuarial fees	2i(7)		
(8) Legal fees	2i(8)		
(9) Valuation/appraisal fees	2i(9)		
(10) Other trustee fees and expenses	2i(10)		
(11) Other expenses	2i(11)	1672	
(12) Total administrative expenses. Add lines 2i(1) through (11)	2i(12)		1672
j Total expenses. Add all expense amounts in column (b) and enter total	2j		1968129

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		4079452
l Transfers of assets:			
(1) To this plan	2l(1)		0
(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) 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) 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: **BEACH FLEISCHMAN PLIC**

(2) EIN: **86-0683059**

d The opinion of an independent qualified public accountant is **not attached** as part of Schedule H because:

(1) This form is filed for a CCT, PSA, DCG 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. DCGs do not complete lines 4e, 4f, 4k, 4l, and 5, and DCGs generally complete the rest of Part IV collectively for all plans in the DCG, except as otherwise provided (see instructions).

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.)		X	
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.)		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.)		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.)		X	
e Was this plan covered by a fidelity bond?	X		500000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		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?		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?		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.)	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.)		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?		X	
l Has the plan failed to provide any benefit when due under the plan?		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)		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.			

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) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	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.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection.
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

A Name of plan <u>LOWELL OBSERVATORY 403(B) RETIREMENT ANNUITY PLAN</u>	B Three-digit plan number (PN)	<u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>LOWELL OBSERVATORY</u>	D Employer Identification Number (EIN) <u>86-0098918</u>	

Part I	Distributions
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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
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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): 13-3590259

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.)
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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
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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.
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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: <input type="checkbox"/> last contributing employer <input type="checkbox"/> alternative <input type="checkbox"/> reasonable approximation (see instructions for required attachment).....	14a	
b The plan year immediately preceding the current plan year. <input type="checkbox"/> 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. <input type="checkbox"/> 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) and (b):

a Enter the percentage of plan assets held as:
 Public Equity: _____% Private Equity: _____% Investment-Grade Debt and Interest Rate Hedging Assets: _____%
 High-Yield Debt: _____% Real Assets: _____% Cash or Cash Equivalents: _____% Other: _____%

b Provide the average duration of the Investment-Grade Debt and Interest Rate Hedging Assets:
 0-5 years 5-10 years 10-15 years 15 years or more

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: _____

Part VII IRS Compliance Questions

21a Does the plan satisfy the coverage and nondiscrimination tests of Code sections 410(b) and 401(a)(4) by combining this plan with any other plans under the permissive aggregation rules? Yes No

21b If this is a Code section 401(k) plan, check all boxes that apply to indicate how the plan is intended to satisfy the nondiscrimination requirements for employee deferrals and employer matching contributions (as applicable) under Code sections 401(k)(3) and 401(m)(2).
 Design-based safe harbor method
 "Prior year" ADP test
 "Current year" ADP test
 N/A

22 If the plan sponsor is an adopter of a pre-approved plan that received a favorable IRS Opinion Letter, enter the date of the Opinion Letter 03 / 02 / 2020 (MM/DD/YYYY) and the Opinion Letter serial number J502244A.

403(B) Thrift Plan for Lowell Observatory

Year Ended December 31, 2024

403(B) Thrift Plan for Lowell Observatory

Year Ended December 31, 2024

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Independent Auditors' Report

Plan Administrator
403(B) Thrift Plan for Lowell Observatory
Flagstaff, Arizona

Scope and Nature of the ERISA Section 103(a)(3)(C) Audit

We have performed audits of the accompanying financial statements of 403(B) Thrift Plan for Lowell Observatory, an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), as permitted by ERISA Section 103(a)(3)(C) (ERISA Section 103(a)(3)(C) audit). The financial statements comprise the statements of net assets available for benefits as of December 31, 2024 and 2023, and the related statement of changes in net assets available for benefits for the year ended December 31, 2024, and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audits of 403(B) Thrift Plan for Lowell Observatory's financial statements performed in accordance with ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. As permitted by ERISA Section 103(a)(3)(C), our audits need not extend to any statements or information related to assets held for investment of the plan (investment information) by a bank or similar institution or insurance carrier that is regulated, supervised, and subject to periodic examination by a state or federal agency, provided that the statements or information regarding assets so held are prepared and certified to by the bank or similar institution or insurance carrier in accordance with 29 CFR 2520.103-5 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA (qualified institution).

Management has obtained certifications from qualified institutions as of December 31, 2024 and 2023 and for the year ended December 31, 2024, stating that the certified investment information, as described in Note 5 to the financial statements, is complete and accurate.

Opinion

In our opinion, based on our audits and on the procedures performed as described in the Auditors' Responsibilities for the Audit of the Financial Statements section—

- the amounts and disclosures in the financial statements referred to above, other than those agreed to or derived from the certified investment information, are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America.
- the information in the financial statements referred to above related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by institutions that management determined meet the requirements of ERISA Section 103(a)(3)(C).

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of 403(B) Thrift Plan for Lowell Observatory 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 ERISA Section 103(a)(3)(C) 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. Management's election of the ERISA Section 103(a)(3)(C) audit does not affect management's responsibility for the financial statements.

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 403(B) Thrift Plan for Lowell Observatory'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.

Auditors' Responsibilities for the Audit of the Financial Statements

Except as described in the Scope and Nature of the ERISA Section 103(a)(3)(C) Audit section of our report, 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 auditors' 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 generally accepted auditing standards 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 generally accepted auditing standards, 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 403(B) Thrift Plan for Lowell Observatory'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 403(B) Thrift Plan for Lowell Observatory's ability to continue as a going concern for a reasonable period of time.

Our audits did not extend to the certified investment information, except for obtaining and reading the certification, comparing the certified investment information with the related information presented and disclosed in the financial statements, and reading the disclosures relating to the certified investment information to assess whether they are in accordance with the presentation and disclosure requirements of accounting principles generally accepted in the United States of America.

Accordingly, the objective of an ERISA Section 103(a)(3)(C) audit is not to express an opinion about whether the financial statements as a whole are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America.

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.

Other Matter - Supplemental Schedule Required by ERISA

The supplemental schedule of assets (held at end of year) as of December 31, 2024 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 included in the supplemental schedule, other than that agreed to or derived from the certified investment 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 generally accepted auditing standards. For information included in the supplemental schedule that agreed to or is derived from the certified investment information, we compared such information to the related certified investment information.

In forming our opinion on the supplemental schedule, we evaluated whether the supplemental schedule, other than the information agreed to or derived from the certified investment information, 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 form and content of the supplemental schedule, other than the information in the supplemental schedule that agreed to or is derived from the certified investment information, are presented, in all material respects, in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.
- the information in the supplemental schedule related to assets held by and certified to by qualified institutions agrees to, or is derived from, in all material respects, the information prepared and certified by institutions that management determined meet the requirements of ERISA Section 103(a)(3)(C).

BeachFleischman PLLC

Phoenix, Arizona
September 26, 2025

403(B) Thrift Plan for Lowell Observatory

Statements of Net Assets Available for Benefits

December 31, 2024 and 2023

	<u>2024</u>	<u>2023</u>
Investments, at fair value:		
Interest-bearing cash	\$ 710,010	\$ 549,250
Pooled separate accounts	29,729,724	25,738,758
Investment contracts with insurance company	<u>6,635,490</u>	<u>6,707,765</u>
	<u>37,075,224</u>	<u>32,995,773</u>
Receivables:		
Employer contributions	-	18,370
Participants' contributions	<u>-</u>	<u>37,664</u>
	<u>-</u>	<u>56,034</u>
Net assets available for benefits	<u>\$ 37,075,224</u>	<u>\$ 33,051,807</u>

403(B) Thrift Plan for Lowell Observatory

Statement of Changes in Net Assets Available for Benefits

Year ended December 31, 2024

Additions to net assets attributed to:

Investment income:

Net appreciation in fair value of investments	\$ 4,551,205
Interest	<u>97,011</u>

Net investment income	<u>4,648,216</u>
-----------------------	------------------

Contributions:

Participants'	889,973
Employer	<u>453,358</u>

Total contributions	<u>1,343,331</u>
---------------------	------------------

Total additions	<u>5,991,547</u>
-----------------	------------------

Deductions from net assets attributed to:

Benefits paid to participants	1,966,457
Administrative expenses	<u>1,673</u>

Total deductions	<u>1,968,130</u>
------------------	------------------

Net increase	4,023,417
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Net assets available for benefits:

Beginning of year	<u>33,051,807</u>
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End of year	<u>\$ 37,075,224</u>
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403(B) Thrift Plan for Lowell Observatory

Notes to Financial Statements

Year Ended December 31, 2024

1. Description of plan:

The following description of the 403(B) Thrift Plan for Lowell Observatory (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 is a defined contribution retirement plan with 403(b) provisions consisting of a salary reduction arrangement. The Plan covers substantially all employees of Lowell Observatory (Sponsor). The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA).

Participant contributions:

Under the provisions of the Plan, participants may elect to defer a portion of their pretax compensation upon hire. Participants are automatically enrolled in the Plan at a deferral rate of 5% of their eligible pretax compensation unless they elect a different amount up to current statutory limits determined annually and prescribed by the Internal Revenue Service (IRS). The Plan also permits participants to make Roth contributions and additional voluntary contributions of qualified rollovers from other retirement plans.

Employer contributions:

The Sponsor matches 100% of the first 5% of eligible compensation that the participant contributes. Participants become eligible for matching contributions after six months of service. Participants must also be at least 18 years of age to be eligible for matching contributions. Employer contributions are invested in the same funds and increments as directed by the participant for the participant's contributions. Contributions are subject to statutory limitations.

Participants' accounts:

Each participant's account is credited with the participant's elective deferral, employer, and rollover contributions, actual earnings thereon and charged with an allocation of administrative expenses. Allocations are based on participant earnings or account balances, as defined in the Plan document. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Vesting:

Participants are immediately vested in their elective deferral, any rollover contributions, and any employer matching contributions made to the Plan, plus actual earnings thereon.

Investment options:

Upon enrollment in the Plan, a participant may direct contributions into any of several investment options. Participants may change their investment options at any time.

403(B) Thrift Plan for Lowell Observatory

Notes to Financial Statements (continued)

Year Ended December 31, 2024

1. Description of plan (continued):

Payment of benefits:

On termination of service due to death, disability, retirement, or election at age 59½, a participant will receive the value of the participant's vested interest in his or her account as a lump-sum distribution or may elect to take partial payments, installment payments or purchase an annuity contract, pursuant to the terms of the Plan. After-tax employee contributions made to the Plan before December 1, 2016 can be withdrawn at anytime. Participants with account balances less than \$1,000 will be paid a lump-sum distribution as soon as practicable following termination.

Plan loans:

The Plan allows for participants to obtain loans from an insurance company using Plan assets as collateral. Plan loans are issued directly from funds owned by Mutual of America Life Insurance Company and not directly from a participant's account. A portion of the participant's account is reserved, or held as collateral, to cover 120% of the outstanding loan in case of default. Accordingly, these loans are not part of Plan assets as of December 31, 2024. Plan loans provide for the repayment of interest at fixed or variable rates and the initial rate is determined by the terms of the controlling contract. Principal and interest are remitted directly to the insurance company from the participant or via payroll deduction.

Plan loans require written spousal consent, cannot exceed 50% of the vested portion of the participant's account balance, excluding the portion attributable to designated Roth contributions (or \$50,000 if less), and must be a minimum of \$1,000. Plan loans must be repaid within five years unless the entire proceeds are used to purchase the participant's primary residence, in which case the loan may be repaid over a ten-year period. Plan loans will be considered in default if payments are not in compliance with the loan agreement or if there is any outstanding principal remaining after the last scheduled repayment date. Upon default, death, disability, or termination of employment, the entire outstanding principal and accrued interest shall be immediately due and payable to the insurance company. Plan loans in default will be deducted from the participant's account balance and treated as a taxable distribution from the Plan.

Plan loans outstanding at December 31, 2024 and 2023 totaled \$102,579 and \$90,464. These loans mature at various dates through January 2031 and bear interest at 5.85%.

Hardship withdrawals:

If approved by the Plan Administrator, a participant may withdraw the elective deferral portion of his/her individual account balance to satisfy any of the following immediate and heavy financial needs: unreimbursed medical expenses for qualified persons, purchase of a principal residence, to prevent eviction from or foreclosure on a principal residence, to pay for post-secondary education expenses for qualified persons, funeral expenses, or for expenses that qualify as a casualty deduction under the Internal Revenue Code (IRC).

403(B) Thrift Plan for Lowell Observatory

Notes to Financial Statements (continued)

Year Ended December 31, 2024

2. Summary of significant accounting policies:

Basis of accounting:

The financial statements of the Plan are prepared using the accrual method of accounting.

Estimates:

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America (GAAP) requires the Plan Administrator to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

Investment valuation and income recognition:

The Plan's investments are reported at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 4 for discussion of fair value measurements.

Purchases and sales of investments are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date.

Net appreciation in the fair value of investments includes both realized and unrealized gains and losses on investments bought and sold as well as held during the year.

Payments of benefits:

Benefits paid to participants are recorded when paid.

Expenses:

Certain expenses of maintaining the Plan are paid by the Plan unless otherwise paid for by the Sponsor. Investment related expenses are included in net appreciation in fair value of investments.

Subsequent event:

The Plan has evaluated the events that have occurred subsequent to December 31, 2024 through September 26, 2025, the date that the financial statements were available to be issued. The Plan has no responsibility to update these financial statements for events and circumstances occurring after this date.

3. Federal income tax status:

The Plan has been designed to qualify under Section 403(b) of the Internal Revenue Code (IRC). The Plan administrator and the Plan's tax counsel believe that the terms of the Plan have been prepared to conform with the requirements of Section 403(b) of the IRC, and is currently being operated in conformity with the applicable requirements of the IRC and, therefore, believe that the Plan is qualified.

403(B) Thrift Plan for Lowell Observatory

Notes to Financial Statements (continued)

Year Ended December 31, 2024

3. Federal income tax status (continued):

GAAP requires plan management to evaluate tax positions taken by the Plan and recognize a tax liability if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

4. Fair value measurements:

The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (level 1) and the lowest priority to unobservable inputs (level 3). The three levels of the fair value hierarchy under FASB ASC 820 are described as follows:

Level 1 - Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access.

Level 2 - Inputs to the valuation methodology include:

- Quoted prices for similar assets or liabilities in active markets;
- Quoted prices for identical or similar assets or liabilities in inactive markets or active markets that the Plan does not have access to;
- Inputs other than quoted prices that are observable for the asset or liability;
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

If the asset or liability has a specified (contractual) term, the level 2 input must be observable for substantially the full term of the asset or liability.

Level 3 - Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The asset or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

403(B) Thrift Plan for Lowell Observatory

Notes to Financial Statements (continued)

Year Ended December 31, 2024

4. Fair value measurements (continued):

At December 31, 2024, the fair value of assets measured on a recurring basis is as follows:

	<u>Fair value</u>	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>
Investments in the fair value hierarchy:				
Investment contracts with insurance company	\$ 6,635,490	\$ -	\$ -	\$ 6,635,490
Interest-bearing cash	<u>710,010</u>	<u>-</u>	<u>710,010</u>	<u>-</u>
	<u>7,345,500</u>	<u>-</u>	<u>710,010</u>	<u>6,635,490</u>
Investments measured at net asset value ^(a) :				
Pooled separate accounts	<u>29,729,724</u>	<u>-</u>	<u>-</u>	<u>-</u>
	<u>\$ 37,075,224</u>	<u>\$ -</u>	<u>\$ 710,010</u>	<u>\$ 6,635,490</u>

At December 31, 2023, the fair value of assets measured on a recurring basis is as follows:

	<u>Fair value</u>	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>
Investments in the fair value hierarchy:				
Investment contracts with insurance company	\$ 6,707,764	\$ -	\$ -	\$ 6,707,764
Interest-bearing cash	<u>549,250</u>	<u>-</u>	<u>549,250</u>	<u>-</u>
	<u>7,257,014</u>	<u>-</u>	<u>549,250</u>	<u>6,707,764</u>
Investments measured at net asset value ^(a) :				
Pooled separate accounts	<u>25,738,758</u>	<u>-</u>	<u>-</u>	<u>-</u>
	<u>\$ 32,995,772</u>	<u>\$ -</u>	<u>\$ 549,250</u>	<u>\$ 6,707,764</u>

^(a) In accordance with Subtopic 820-10, certain investments that were measured at net asset value per share (or its equivalent) have not been classified in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the line items presented in the statement of net assets available for benefits.

Following is a description of the valuation methodologies used for assets measured at fair value:

Interest-bearing cash: Consists of highly liquid instruments that generate interest income. The carrying value of interest-bearing cash is its fair value.

403(B) Thrift Plan for Lowell Observatory

Notes to Financial Statements (continued)

Year Ended December 31, 2024

4. Fair value measurements (continued):

Pooled separate account - TIAA Real Estate Account: This account invests primarily in real estate properties and real estate related investments. Real estate holdings are valued principally using external appraisals, which are estimates of property values based on a professional's opinion. The account sometimes holds securities to facilitate liquidity. The securities are priced using values obtained from independent pricing sources. The unit value of this fund (net asset value) is calculated daily. The net asset value is used as a practical expedient to estimate fair value.

Pooled separate accounts - All Other: These funds' assets are invested in registered investment companies. The funds are valued at the net asset value of units of the separate account. The net asset value of the units is determined daily and includes adjustments for investment fees. The net asset value is used as a practical expedient to estimate fair value.

Investment contracts with insurance company: Valued at fair value by the insurance company by discounting the related cash flows based on current yields of similar instruments with comparable durations considering the credit-worthiness of the issuer.

The preceding methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

A reconciliation of assets measured at fair value on a recurring basis with the use of significant unobservable inputs (Level 3) from December 31, 2023 to December 31, 2024 is as follows:

	Investment contracts with insurance company
Balance December 31, 2023	\$ 6,707,764
Net realized and unrealized gains and the change in unrealized gains on assets held at year end	203,554
Purchases	155,592
Sales	<u>(431,420)</u>
Balance December 31, 2024	<u>\$ 6,635,490</u>
Net unrealized gains and the change in unrealized gains on assets held at year end included in net appreciation	<u>\$ 93,559</u>

403(B) Thrift Plan for Lowell Observatory

Notes to Financial Statements (continued)

Year Ended December 31, 2024

4. Fair value measurements (continued):

Investments measured using the NAV per share practical expedient:

The following table summarizes investments for which fair value is measured using the net asset value per share practical expedient as of December 31, 2024 and 2023. There are no participant redemption restrictions for these investments; the redemption frequency is applicable only to the Plan.

December 31, 2024	Fair value	Unfunded commitments	Redemption frequency	Redemption notice period
Equity funds	\$ 17,597,825	n/a	n/a	None
Fixed income funds	2,524,293	n/a	n/a	None
Target date funds	9,165,201	n/a	n/a	None
TIAA Real Estate fund	442,405	n/a	Quarterly	None
December 31, 2023	Fair value	Unfunded commitments	Redemption frequency	Redemption notice period
Equity funds	\$ 15,051,182	n/a	n/a	None
Fixed income funds	2,453,868	n/a	n/a	None
Target date funds	7,807,881	n/a	n/a	None
TIAA Real Estate fund	425,827	n/a	Quarterly	None

Equity funds: These funds consist of professionally managed investment products primarily invested in equity instruments to create a diversified pool of securities to achieve growth objectives.

Fixed income funds: These funds consist of professionally managed investment products primarily invested in debt instruments with the objective of generating income.

Target date funds: These funds consist of a blend of investments that are re-balanced over time to address retirement goals. Funds with longer horizons are invested more aggressively to achieve growth objectives while shorter-term funds are invested in more conservative securities with the objective of generating income.

5. Investment certification:

Certain information related to investments disclosed in the accompanying financial statements and supplemental schedule, including investments held at December 31, 2024 and 2023, and net appreciation in fair value of investments and interest for the year ended December 31, 2024, was obtained or derived from information supplied to the Plan Administrator and certified as complete and accurate by TIAA and CREF and Mutual of America Life Insurance Company, the insurance companies of the Plan.

403(B) Thrift Plan for Lowell Observatory

Notes to Financial Statements (continued)

Year Ended December 31, 2024

6. Related party and party in interest transactions:

Certain Plan investments are managed by TIAA and CREF and Mutual of America Life Insurance Company, the insurance companies of the Plan. The Plan paid certain expenses to TIAA and CREF and Mutual of America Life Insurance Company and other service providers during 2024 related to plan administration and investment activity. These transactions qualify as exempt party in interest transactions under ERISA.

Expenses that are paid directly by the Sponsor are excluded from these financial statements. Employees of the Sponsor perform certain accounting and administrative functions for the Plan, however, no employee receives compensation from the Plan.

7. Investment contracts with insurance company:

The Plan holds a benefit-responsive investment contract with TIAA totaling \$289,316 and \$292,490 at December 31, 2024 and 2023. TIAA maintains the contributions in a general account. The account is credited with earnings on the underlying investments and charged for participant withdrawals and administrative expenses. The guaranteed investment contract issuer is contractually obligated to repay the principal and a specified interest rate that is guaranteed to the participant. The crediting rate is based on a formula established by the contract issuer, but may not be less than 3%. The crediting rate is reviewed on an annual basis for resetting. The guaranteed investment contract does not permit the insurance company to terminate the agreement prior to the scheduled maturity date. Because the investment contract is executed between the participant and TIAA, rather than between the Plan and TIAA as required under the fully benefit-responsible investment contract criteria, the contract has been reported at fair value in the accompanying statements of net assets available for benefits.

The Plan holds a non benefit-responsive investment contract with TIAA totaling \$6,346,174 and \$6,415,275 at December 31, 2024 and 2023. TIAA maintains the contributions in a general account. The account is credited with earnings on the underlying investments and charged for participant withdrawals and administrative expenses. The guaranteed investment contract issuer is contractually obligated to repay the principal and a specified interest rate that is guaranteed to the Plan. The crediting rate is based on a formula established by the contract issuer but may not be less than 3%. The crediting rate is reviewed on an annual basis for resetting. The guaranteed investment contract does not permit the insurance company to terminate the agreement prior to the scheduled maturity date. The contract is reported at fair value in the accompanying statements of net assets available for benefits. Fair value approximates contract value.

The Plan's ability to receive amounts due is dependent on the issuer's ability to meet its financial obligations. The issuer's ability to meet its contractual obligations may be affected by future economic and regulatory developments.

403(B) Thrift Plan for Lowell Observatory

Notes to Financial Statements (continued)

Year Ended December 31, 2024

8. Reconciliation of financial statements to Form 5500:

The following is a reconciliation of net assets available for benefits per the financial statements to the Form 5500 at December 31, 2024 and 2023:

	2024	2023
Net assets available for benefits per the financial statements	\$ 37,075,224	\$ 33,051,807
Less: Employer contributions receivable	-	(18,370)
Less: Participants' contributions receivable	-	(37,664)
Difference due to rounding	(2)	(3)
Net assets available for benefits per the Form 5500	\$ 37,075,222	\$ 32,995,770

The following is a reconciliation of interest-bearing cash and investment contracts with insurance company per the financial statements to the Form 5500 at December 31, 2024 and 2023:

	2024	2023
Interest-bearing cash per the financial statements	\$ 710,010	\$ 549,250
Investment contract with insurance company at fair value per the financial statements	6,635,490	6,707,765
Difference due to rounding	(1)	-
Value of funds held in insurance company general account per the Form 5500	\$ 7,345,499	\$ 7,257,015

The following is a reconciliation of pooled separate accounts held by the insurance company per the Form 5500 to the financial statements at December 31, 2024 and 2023:

	2024	2023
Value of interest in registered investment companies per the Form 5500	\$ 29,287,318	\$ 25,312,928
Value of interest in pooled separate accounts per the Form 5500	442,405	425,827
Difference due to rounding	1	3
Pooled separate accounts per the financial statements	\$ 29,729,724	\$ 25,738,758

The Plan's investments in pooled separate accounts, with the exception of the TIAA Real Estate fund, are reported on the Form 5500, Schedule H as registered investment companies because a DFE Form 5500 has not been filed by the sponsor of the pooled separate accounts.

403(B) Thrift Plan for Lowell Observatory

Notes to Financial Statements (continued)

Year Ended December 31, 2024

8. Reconciliation of financial statements to Form 5500 (continued):

The following is a reconciliation of net investment income per the financial statements to Form 5500 for the year ended December 31, 2024:

Net investment income per the financial statements	<u>\$ 4,648,216</u>
Total interest per Form 5500	\$ 318,684
Net investment gain from pooled separate accounts per Form 5500	2,794,501
Net investment gain from registered investment companies per Form 5500	<u>1,535,031</u>
	<u>\$ 4,648,216</u>

The following is a reconciliation of participants' contributions per the financial statements to Form 5500 for the year ended December 31, 2024:

Participants' contributions per the financial statements	\$ 889,973
Add: Participants' contributions receivable at beginning of year	37,664
Less: Participants' contributions receivable at end of year	<u>-</u>
Total participants' contributions per Form 5500	<u>\$ 927,637</u>

The following is a reconciliation of employer contributions per the financial statements to Form 5500 for the year ended December 31, 2024:

Employer contributions per the financial statements	\$ 453,358
Add: Employer contributions receivable at beginning of year	18,370
Less: Employer contributions receivable at end of year	<u>-</u>
Total employer contributions per Form 5500	<u>\$ 471,728</u>

9. Plan termination:

Although it has not expressed any intent to do so, the Sponsor has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA.

403(B) Thrift Plan for Lowell Observatory

Notes to Financial Statements (continued)

Year Ended December 31, 2024

10. Risks and uncertainties:

The Plan invests in securities with contractual cash flows, such as asset backed securities, collateralized mortgage obligations and commercial mortgage backed securities, including securities backed by subprime mortgage loans. The value, liquidity, and related income of these securities are sensitive to changes in economic conditions, including real estate value, delinquencies or defaults, or both, and may be adversely affected by shifts in the market's perception of the issuers and changes in interest rate. In addition, the Plan invests in various investment securities that are exposed to risks such as interest rate, market, and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect participants' account balances and the amounts reported in the statements of net assets available for benefits.

11. Subsequent event:

Effective April 1, 2025, the Plan adopted a pre-approved plan with Mutual of America Financial Group and changed its name to 403(b) Thrift Plan for Employees of Lowell Observatory.

403(B) Thrift Plan for Lowell Observatory

Schedule H, Line 4i - Schedule of Assets (Held at End of Year)

EIN: 86-0098918 PLAN #001

December 31, 2024

a)	b) Identity of issue, borrower, lessor or similar party	c) Description of investment including maturity date, rate of interest, collateral, par or maturity value	d) Cost	e) Current value
		Interest-bearing Cash:		
*	Mutual of America	General Account		<u>\$ 710,010</u>
		Pooled Separate Accounts:		
*	Mutual of America	American Century VP Capital Appreciation	\$	61,004
*	Mutual of America	American Funds IS New World Fund		109,343
*	Mutual of America	Calvert VP SRI Balanced Portfolio		91,677
*	College Retirement Equities Fund variable annuities	CREF Core Bond R1		583,232
*	College Retirement Equities Fund variable annuities	CREF Equity Index R1		771,611
*	College Retirement Equities Fund variable annuities	CREF Global Equities R1		659,267
*	College Retirement Equities Fund variable annuities	CREF Growth R1		2,721,768
*	College Retirement Equities Fund variable annuities	CREF Inflation-Linked Bond R1		301,476
*	College Retirement Equities Fund variable annuities	CREF Money Market R1		96,573
*	College Retirement Equities Fund variable annuities	CREF Social Choice R1		930,079
*	College Retirement Equities Fund variable annuities	CREF Stock R1		2,166,270
*	Mutual of America	Delaware VIP Small Cap Value Series		1,716
*	Mutual of America	DWS Capital Growth VIP		520,977
*	Mutual of America	Fidelity VIP Asset Manager Portfolio		28,092
*	Mutual of America	Fidelity VIP Contrafund Portfolio		395,572
*	Mutual of America	Fidelity VIP Equity - Income Portfolio		206,607
*	Mutual of America	Fidelity VIP Mid Cap Portfolio		86,872
*	Mutual of America	Goldman Sachs VIT Small Cap Equity Insights		3,400
*	Mutual of America	Goldman Sachs VIT US Equity Insights		3,331
*	Mutual of America	Invesco Oppenheimer VI Main Street		42,317
*	Mutual of America	MFS VIT III Mid Cap Value Portfolio		38
*	Mutual of America	Mutual of America Aggressive Allocation		215,133
*	Mutual of America	Mutual of America All America Fund		50,142
*	Mutual of America	Mutual of America Balanced Fund		92,174
*	Mutual of America	Mutual of America Clear Passage 2015		35
*	Mutual of America	Mutual of America Clear Passage 2020		542,010
*	Mutual of America	Mutual of America Clear Passage 2025		1,286,671
*	Mutual of America	Mutual of America Clear Passage 2030		1,227,075
*	Mutual of America	Mutual of America Clear Passage 2035		1,093,592
*	Mutual of America	Mutual of America Clear Passage 2040		1,826,325
*	Mutual of America	Mutual of America Clear Passage 2045		358,081
*	Mutual of America	Mutual of America Clear Passage 2050		742,525
*	Mutual of America	Mutual of America Clear Passage 2055		1,181,244
*	Mutual of America	Mutual of America Clear Passage 2060		260,497
*	Mutual of America	Mutual of America Clear Passage 2065		375,431
*	Mutual of America	Mutual of America Conservative Allocation		502
*	Mutual of America	Mutual of America Core Bond Fund		348,398
*	Mutual of America	Mutual of America Equity Index Fund		5,163,023
*	Mutual of America	Mutual of America Intermediate Bond Fund		151,890
*	Mutual of America	Mutual of America International Fund		15,994
*	Mutual of America	Mutual of America Mid-Cap Equity Index		240,170
*	Mutual of America	Mutual of America Mid-Cap Value Fund		23,418
*	Mutual of America	Mutual of America Moderate Allocation		148,686
*	Mutual of America	Mutual of America Money Market Fund		94,217
*	Mutual of America	Mutual of America Retirement Income Fund		14,300
*	Mutual of America	Mutual of America Small Cap Equity Index Fund		38,464
*	Mutual of America	Mutual of America Small Cap Growth Fund		137,947
*	Mutual of America	Mutual of America Small Cap Value Fund		58,115

403(B) Thrift Plan for Lowell Observatory

Schedule H, Line 4i - Schedule of Assets (Held at End of Year) (continued)

EIN: 86-0098918 PLAN #001

December 31, 2024

a)	b) Identity of issue, borrower, lessor or similar party	c) Description of investment including maturity date, rate of interest, collateral, par or maturity value	d) Cost	e) Current value
		Pooled Separate Accounts (continued):		
*	Mutual of America	Neuberger Berman AMT Sustainable Equity	\$	53,375
*	Mutual of America	PIMCO VIT Real Return Portfolio		805,965
*	Mutual of America	T. Rowe Price Blue Chip Growth Portfolio		1,363,468
*	TIAA	TIAA Access Nuv Core Equity T4		12,162
*	TIAA	TIAA Access Nuv Equity Index T4		153,801
*	TIAA	TIAA Access Nuv Infl-Lnkd Bond T4		18,428
*	TIAA	TIAA Access Nuv Intl Equity T4		58,907
*	TIAA	TIAA Access Nuv Large Cap Res Equity T4		1,883
*	TIAA	TIAA Access Nuv Lg-Cap Gr T4		49,521
*	TIAA	TIAA Access Nuv Lg-Cap Val T4		4,584
*	TIAA	TIAA Access Nuv Lifecycle 2010 T4		39,313
*	TIAA	TIAA Access Nuv Lifecycle 2020 T4		2,052
*	TIAA	TIAA Access Nuv Lifecycle 2030 T4		68,313
*	TIAA	TIAA Access Nuv Lifecycle 2035 T4		41,867
*	TIAA	TIAA Access Nuv Lifecycle 2040 T4		29,378
*	TIAA	TIAA Access Nuv Lifecycle 2045 T4		27,619
*	TIAA	TIAA Access Nuv Lifecycle 2050 T4		63,174
*	TIAA	TIAA Access Nuv Mid-Cap Gr T4		127,782
*	TIAA	TIAA Access Nuv Mid-Cap Val T4		6,413
*	TIAA	TIAA Access Nuv QT Sm-Cap Equity T4		107,210
*	TIAA	TIAA Access Nuv Real Et. Secs T4		50,731
*	TIAA	TIAA Access Nuv Sm-Cap Bl Idx T4		3,605
*	TIAA	TIAA Real Estate		442,405
*	Mutual of America	Vanguard VIF Diversified Value Portfolio		122,108
*	Mutual of America	Vanguard VIF International Portfolio		370,811
*	Mutual of America	Vanguard VIF Real Estate Index Portfolio		179,734
*	Mutual of America	Vanguard VIF Total Bond Market		57,796
*	Mutual of America	Victory RS Small Cap Growth Equity VIP		<u>38</u>
				<u>\$ 29,729,724</u>
		Investment Contracts with Insurance Company:		
*	TIAA	TIAA Traditional Benefit Responsive	\$	289,316
*	TIAA	TIAA Traditional Non Benefit Responsive		<u>6,346,174</u>
				<u>\$ 6,635,490</u>

* Represents a party in interest