

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

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.

Department of Labor Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

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, check here... D Check box if filing under: [X] Form 5558 [] automatic extension... E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here...

Part II Basic Plan Information—enter all requested information

1a Name of plan HARVARD BIOSCIENCE, INC. 401(K) PLAN
1b Three-digit plan number (PN) 001
1c Effective date of plan 01/01/1996
2a Plan sponsor's name (employer, if for a single-employer plan) HARVARD BIOSCIENCE, INC.
2b Employer Identification Number (EIN) 04-3306140
2c Plan Sponsor's telephone number 508-893-8999
2d Business code (see instructions) 335900

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 type="checkbox"/> Same as Plan Sponsor FUTUREPLAN FIDUCIARY SERVICES PO BOX 55757 BOSTON, MA 02205	3b Administrator's EIN 82-3719843
	3c Administrator's telephone number 855-711-5283

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
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5 Total number of participants at the beginning of the plan year	5	481
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6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d).		
a(1) Total number of active participants at the beginning of the plan year	6a(1)	262
a(2) Total number of active participants at the end of the plan year	6a(2)	218
b Retired or separated participants receiving benefits.....	6b	11
c Other retired or separated participants entitled to future benefits	6c	198
d Subtotal. Add lines 6a(2) , 6b , and 6c	6d	427
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.	6e	0
f Total. Add lines 6d and 6e	6f	427
g(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item)	6g(1)	467
g(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	6g(2)	420
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....	6h	0

7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	7	
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8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:
 2E 2F 2G 2J 2K 2S 2T 3D 3H

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

9a Plan funding arrangement (check all that apply) (1) <input checked="" type="checkbox"/> Insurance (2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts (3) <input checked="" type="checkbox"/> Trust (4) <input type="checkbox"/> General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) <input checked="" type="checkbox"/> Insurance (2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts (3) <input checked="" type="checkbox"/> Trust (4) <input type="checkbox"/> General assets of the sponsor
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10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

a Pension Schedules

- (1) **R** (Retirement Plan Information)
- (2) **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
- (3) **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary
- (4) **DCG** (Individual Plan Information) – Number Attached _____
- (5) **MEP** (Multiple-Employer Retirement Plan Information)

b General Schedules

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

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

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

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

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

11c Enter the Receipt Confirmation Code for the 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 _____

<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 HARVARD BIOSCIENCE, INC. 401(K) 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 HARVARD BIOSCIENCE, INC.</p>	<p>D Employer Identification Number (EIN) 04-3306140</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
VOYA RETIREMENT INSURANCE AND ANNUITY COMPANY

(b) EIN	(c) NAIC code	(d) Contract or identification number	(e) Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	(g) To
71-0294708	86509	81E910	421	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
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(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	1266071
5	Current value of plan's interest under this contract in separate accounts at year end.....	48022302
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 type="checkbox"/> guaranteed investment (4) <input checked="" type="checkbox"/> other ▶ GROUP PENSION FUNDING	
b	Balance at the end of the previous year	7b 1291089
c	(1) Contributions deposited during the year	7c(1) 71318
	(2) Dividends and credits.....	7c(2) 0
	(3) Interest credited during the year.....	7c(3) 52183
	(4) Transferred from separate account	7c(4) 123780
	(5) Other (specify below)..... ▶ LOAN REPAYMENT	7c(5) 10121
	(6) Total additions	7c(6) 257402
d	Total of balance and additions (add lines 7b and 7c(6))	7d 1548491
e	Deductions:	
	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1) 230352
	(2) Administration charge made by carrier.....	7e(2) 25045
	(3) Transferred to separate account	7e(3)
	(4) Other (specify below)..... ▶ LOAN WITHDRAW	7e(4) 27023
(5) Total deductions	7e(5) 282420	
f	Balance at the end of the current year (subtract line 7e(5) from line 7d).....	7f 1266071

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 HARVARD BIOSCIENCE, INC. 401(K) PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 HARVARD BIOSCIENCE, INC.	D Employer Identification Number (EIN) 04-3306140	

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

VOYA RETIREMENT INSURANCE & ANNUITY

71-0294708

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

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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)

MML INVESTORS SERVICES, INC.

04-2746212

(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?
99	SERVICE PROVIDER	0	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	36667	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

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

FUTUREPLAN

82-3719843

(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?
99	SERVICE PROVIDER	17249	Yes <input type="checkbox"/> No <input checked="" 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)

FUTUREPLAN

82-3179843

(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?
99	SERVICE PROVIDER	6087	Yes <input type="checkbox"/> No <input checked="" 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
MML INVESTORS SERVICES, INC.	99	36667

(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.
VOYA RETIREMENT INSURANCE AND ANNUI 71-0294708	OTHER FEES

(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>HARVARD BIOSCIENCE, INC. 401(K) 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>HARVARD BIOSCIENCE, INC.</u>	D Employer Identification Number (EIN) <u>04-3306140</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)
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a Name of MTIA, CCT, PSA, or 103-12 IE: <u>VARIABLE ANNUITY ACCOUNT D</u>		
b Name of sponsor of entity listed in (a): <u>VOYA RETIREMENT INSURANCE AND ANNUITY COMPANY</u>		
c EIN-PN <u>71-0294708-000</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>48022302</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)

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)

Part II Information on Participating Plans (to be completed by DFEs, other than DCGs)

(Complete as many entries as needed to report all participating plans. DCGs must report each participating plan using Schedule DCG.)

a Plan name

b Name of plan sponsor

c EIN-PN

a Plan name

b Name of plan sponsor

c EIN-PN

a Plan name

b Name of plan sponsor

c EIN-PN

a Plan name

b Name of plan sponsor

c EIN-PN

a Plan name

b Name of plan sponsor

c EIN-PN

a Plan name

b Name of plan sponsor

c EIN-PN

a Plan name

b Name of plan sponsor

c EIN-PN

a Plan name

b Name of plan sponsor

c EIN-PN

a Plan name

b Name of plan sponsor

c EIN-PN

a Plan name

b Name of plan sponsor

c EIN-PN

a Plan name

b Name of plan sponsor

c EIN-PN

a Plan name

b Name of plan sponsor

c EIN-PN

SCHEDULE H (Form 5500) <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.	<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 HARVARD BIOSCIENCE, INC. 401(K) PLAN	B Three-digit plan number (PN) ▶ 001
C Plan sponsor's name as shown on line 2a of Form 5500 HARVARD BIOSCIENCE, INC.	D Employer Identification Number (EIN) 04-3306140

Part I	Asset and Liability Statement
---------------	--------------------------------------

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

Assets	(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash	1a	
b Receivables (less allowance for doubtful accounts):		
(1) Employer contributions	1b(1)	
(2) Participant contributions	1b(2)	
(3) Other	1b(3)	
c General investments:		
(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)	
(2) U.S. Government securities	1c(2)	
(3) Corporate debt instruments (other than employer securities):		
(A) Preferred	1c(3)(A)	
(B) All other	1c(3)(B)	
(4) Corporate stocks (other than employer securities):		
(A) Preferred	1c(4)(A)	
(B) Common	1c(4)(B)	
(5) Partnership/joint venture interests	1c(5)	
(6) Real estate (other than employer real property)	1c(6)	
(7) Loans (other than to participants)	1c(7)	
(8) Participant loans	1c(8)	290488
(9) Value of interest in common/collective trusts	1c(9)	
(10) Value of interest in pooled separate accounts	1c(10)	46096835
(11) Value of interest in master trust investment accounts	1c(11)	
(12) Value of interest in 103-12 investment entities	1c(12)	
(13) Value of interest in registered investment companies (e.g., mutual funds)	1c(13)	
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)	1291089
(15) Other.....	1c(15)	374015
		48022302
		1266071

1d Employer-related investments:		(a) Beginning of Year	(b) End of Year
(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	47678412	49662388
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	47678412	49662388

Part II Income and Expense Statement

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

Income		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers.....	2a(1)(A)	906616	
(B) Participants.....	2a(1)(B)	2425771	
(C) Others (including rollovers).....	2a(1)(C)	132404	
(2) Noncash contributions.....	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		3464791
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit).....	2b(1)(A)		
(B) U.S. Government securities.....	2b(1)(B)		
(C) Corporate debt instruments.....	2b(1)(C)		
(D) Loans (other than to participants).....	2b(1)(D)		
(E) Participant loans.....	2b(1)(E)	21976	
(F) Other.....	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		21976
(2) Dividends:			
(A) Preferred stock.....	2b(2)(A)		
(B) Common stock.....	2b(2)(B)		
(C) Registered investment company shares (e.g. mutual funds).....	2b(2)(C)	27220	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		27220
(3) Rents.....	2b(3)		
(4) Net gain (loss) on sale of assets:			
(A) Aggregate proceeds.....	2b(4)(A)		
(B) Aggregate carrying amount (see instructions).....	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result.....	2b(4)(C)		
(5) Unrealized appreciation (depreciation) of assets:			
(A) Real estate.....	2b(5)(A)		
(B) Other.....	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		6332788
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		
c Other income	2c		
d Total income. Add all income amounts in column (b) and enter total.....	2d		9846775

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers.....	2e(1)	7828378	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other.....	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		7828378
f Corrective distributions (see instructions)	2f		1197
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)	33224	
(3) Recordkeeping fees	2i(3)		
(4) IQPA audit fees	2i(4)		
(5) Investment advisory and investment management fees	2i(5)		
(6) Bank or trust company trustee/custodial fees	2i(6)		
(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)		
(12) Total administrative expenses. Add lines 2i(1) through (11)	2i(12)		33224
j Total expenses. Add all expense amounts in column (b) and enter total.....	2j		7862799

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		1983976
l Transfers of assets:			
(1) To this plan.....	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

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

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

(1) 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: **JOHNSON O'CONNOR, FERON AND CARUCCI**

(2) EIN: **20-3985546**

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		3000000
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 HARVARD BIOSCIENCE, INC. 401(K) PLAN	B Three-digit plan number (PN)	001
C Plan sponsor's name as shown on line 2a of Form 5500 HARVARD BIOSCIENCE, INC.	D Employer Identification Number (EIN) 04-3306140	

Part I	Distributions
---------------	----------------------

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

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

2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits):
 EIN(s): 71-0294708

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

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

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

4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? Yes No N/A
If the plan is a defined benefit plan, go to line 8.

5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. **Date:** Month _____ Day _____ Year _____
If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.

6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived)	6a	
b Enter the amount contributed by the employer to the plan for this plan year	6b	
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount).....	6c	

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

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

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

Part III	Amendments
-----------------	-------------------

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

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

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

11 a Does the ESOP hold any preferred stock? Yes No

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

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

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

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

a Name of contributing employer _____

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

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

e Contribution rate information (If more than one rate applies, check this box and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: Hourly Weekly Unit of production Other (specify): _____

a Name of contributing employer _____

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

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

e Contribution rate information (If more than one rate applies, check this box and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: Hourly Weekly Unit of production Other (specify): _____

a Name of contributing employer _____

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

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

e Contribution rate information (If more than one rate applies, check this box and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: Hourly Weekly Unit of production Other (specify): _____

a Name of contributing employer _____

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

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

e Contribution rate information (If more than one rate applies, check this box and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: Hourly Weekly Unit of production Other (specify): _____

a Name of contributing employer _____

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

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

e Contribution rate information (If more than one rate applies, check this box and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: Hourly Weekly Unit of production Other (specify): _____

a Name of contributing employer _____

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

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

e Contribution rate information (If more than one rate applies, check this box and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: Hourly Weekly Unit of production Other (specify): _____

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

a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: <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 06 / 30 / 2020 (MM/DD/YYYY) and the Opinion Letter serial number Q702814A.

HARVARD BIOSCIENCE, INC. 401(k) PLAN

**FINANCIAL STATEMENTS
AND SUPPLEMENTAL INFORMATION**

Years Ended December 31, 2024 and 2023

**HARVARD BIOSCIENCE, INC. 401(k) PLAN
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INDEPENDENT AUDITORS' REPORT

To the Plan Administrator
Harvard Bioscience, Inc. 401(k) Plan

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

We have performed audits of the financial statements of Harvard Bioscience, Inc. 401(k) Plan, 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 statements of changes in net assets available for benefits for the years then ended, and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audits of Harvard Bioscience, Inc. 401(k) Plan'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 a qualified institution as of December 31, 2024 and 2023 and for the years then ended, 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 accompanying financial statements, 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 accompanying financial statements 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 an institution that management determined meets 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 (GAAS). 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 Harvard Bioscience, Inc. 401(k) Plan and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. 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 Harvard Bioscience, Inc. 401(k) Plan's ability to continue as a going concern within 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 of the Financial Statements 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 GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if, there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.

- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of Harvard Bioscience, Inc. 401(k) Plan's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about Harvard Bioscience, Inc. 401(k) Plan'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 H, Line 4i - 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 supplemental 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 GAAS. 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, is 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 a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Johnson O'Connor Feron & Carucci LLP

Wakefield, Massachusetts

October 8, 2025

HARVARD BIOSCIENCE, INC. 401(k) PLAN
STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

	December 31,	
	<u>2024</u>	<u>2023</u>
ASSETS		
Investments, at fair value	\$ 48,022,302	\$ 46,096,835
Investment, at contract value	1,266,071	1,291,089
Receivables:		
Notes receivable from participants	<u>374,015</u>	<u>290,488</u>
Net assets available for benefits	<u>\$ 49,662,388</u>	<u>\$ 47,678,412</u>

See notes to financial statements.

HARVARD BIOSCIENCE, INC. 401(k) PLAN
STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

	Years Ended December 31,	
	2024	2023
ADDITIONS		
Additions to net assets attributed to:		
Investment income:		
Net appreciation in fair value of investments	\$ 6,332,788	\$ 7,194,476
Interest and dividends	27,220	26,538
	<u>6,360,008</u>	<u>7,221,014</u>
Interest income on notes receivable from participants	<u>21,976</u>	<u>14,120</u>
Contributions:		
Participant	2,425,771	2,433,212
Employer	906,616	877,290
Rollovers	132,404	55,883
	<u>3,464,791</u>	<u>3,366,385</u>
Total additions	<u>9,846,775</u>	<u>10,601,519</u>
DEDUCTIONS		
Deductions from net assets attributed to:		
Benefits paid to participants	7,829,575	3,773,955
Administrative expenses	33,224	34,867
	<u>7,862,799</u>	<u>3,808,822</u>
Total deductions	<u>7,862,799</u>	<u>3,808,822</u>
Net increase	1,983,976	6,792,697
NET ASSETS AVAILABLE FOR BENEFITS - BEGINNING OF YEAR	<u>47,678,412</u>	<u>40,885,715</u>
NET ASSETS AVAILABLE FOR BENEFITS - END OF YEAR	<u>\$ 49,662,388</u>	<u>\$ 47,678,412</u>

See notes to financial statements.

**HARVARD BIOSCIENCE, INC. 401(k) PLAN
NOTES TO FINANCIAL STATEMENTS**

1. DESCRIPTION OF PLAN

The following description of Harvard Bioscience, Inc. 401(k) Plan (the Plan) provides only general information. Participants should refer to the Plan agreement for a more complete description of the Plan's provisions.

General –

The Plan is sponsored by Harvard Bioscience, Inc. (the Company). The Plan is a defined contribution plan covering all employees of the Company who have reached the age of 21 and who have completed one month of service, except for employees covered by a collective bargaining agreement, leased employees, nonresident aliens and temporary employees who have not completed one year of service, as defined by the Plan. The Plan is subject to the provisions of the Internal Revenue Code of 1986, as amended (the Code) and the Employee Retirement Income Security Act of 1974 (ERISA). All investments are participant directed. The Company's Plan Committee determines the appropriateness of the Plan's investment offerings and monitors investment performance. The Plan's trustee and the custodian of Plan investments is Voya Retirement Insurance and Annuity Company. The Company engaged the services of Ascensus, LLC for purposes of assistance with administrative functions, compliance testing and investment decision-making. The Plan was most recently amended and restated effective January 1, 2023.

Contributions –

Participants may elect to contribute a percentage of their eligible compensation, as defined up to 100% on a pretax or post-tax (Roth) basis. Participants are automatically enrolled on their eligibility date to contribute 4% of compensation, unless the participant elects a different percentage (including zero). The automatic deferral amount will increase by 2% annually, but will not exceed 10% of compensation. Participants whose current election as of January 1, 2021, is less than the maximum of 10%, are also subject to the escalation schedule unless they opt out. The Plan also permits participants to make additional voluntary contributions of qualified rollovers from other retirement plans. All contributions are subject to certain limitations under the Internal Revenue Code (IRC).

The Company will make safe harbor matching contributions based on the same eligibility criteria as for employee deferral contributions. The Company's safe harbor matching contribution is equal to 100% of the first 1% of eligible compensation plus 50% of the next 5% of eligible compensation that participants elected to contribute to the Plan, as defined in the Plan agreement. During the years ended December 31, 2024 and 2023, the Company made safe harbor matching contributions to the Plan totaling \$906,616 and \$877,290, respectively.

At its discretion, the Company may elect to make employer matching and profit sharing contributions. Participants must complete 1,000 hours of service and be actively employed by the Company as of the Plan year-end to receive discretionary profit sharing contributions, except in the year of death, disability, termination of employment after reaching age 59½ or termination of employment after the later of completing six years of service or reaching age 55. There were no discretionary matching or profit sharing contributions for the years ended December 31, 2024 and 2023.

**HARVARD BIOSCIENCE, INC. 401(k) PLAN
NOTES TO FINANCIAL STATEMENTS**

1. DESCRIPTION OF PLAN (Continued)

Participant Accounts –

Each participant's account is credited with the participant's elective deferral contributions, any rollover contributions, Company safe harbor matching contributions, as well as allocations of the Company's discretionary matching and profit sharing contributions, if any, and Plan investment results. Participant accounts are charged with an allocation of administrative expenses that are paid by the Plan. Allocations are based on account balances, or specific transactions, 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 fully vested in their elective deferral contributions, the Company's safe harbor matching contributions and any rollover contributions made to the Plan, plus any actual earnings thereon. Vesting in Company discretionary matching contributions and any Company profit sharing contributions, plus earnings thereon, is 100% after one year of service. A year of service is defined as 1,000 hours or more of service during a Plan year. A participant's account also becomes fully vested upon reaching normal retirement age of 59½, death, disability during the term of employment, or reaching early retirement age, which is defined as the later of completing six years of service or reaching age 55.

Notes Receivable from Participants –

Participants may borrow from their accounts a minimum of \$1,000, up to a maximum equal to the lesser of \$50,000 or 50% of their vested account balance. The notes are secured by the remaining balance in the participant's vested account and bear interest at a rate equal to the rate offered by regional commercial banks for similar loans. The terms require principal and interest payments through payroll deductions, and notes generally have a term of not more than five years, except as permitted in accordance with Plan provisions. Upon termination of employment, the outstanding balance of a loan becomes due immediately. Notes were also subject to the deduction of certain origination and processing charges. Notes receivable from participants range in interest from 3.75% to 9.50%, and mature at various dates through November 2038.

Payment of Benefits –

Upon termination of service due to death, retirement, termination for other reasons, a participant may elect to receive either a lump-sum amount equal to the value of the participant's vested interest in his or her account, or installments over a period of time as soon as administratively feasible following the date on which a distribution is requested or otherwise payable. Preretirement distributions are allowed under the Plan after reaching age 59½. If the value of a participant's balance upon termination is less than \$1,000, the benefit will be paid in a lump sum without the need for the participant's consent. If a participant's account balance is greater than \$1,000 but equal to or less than \$7,000 (increased from \$5,000 effective January 1, 2024 under the SECURE 2.0 Act), the plan administrator can automatically rollover your entire vested account balance into a traditional individual retirement account (IRA).

Hardship withdrawals are available from the participant's accounts, in order to meet a participant's immediate and heavy financial need, as defined in the Plan document.

HARVARD BIOSCIENCE, INC. 401(k) PLAN
NOTES TO FINANCIAL STATEMENTS

1. DESCRIPTION OF PLAN (Continued)

Forfeitures –

Forfeitures occur when a participant terminates prior to being fully vested. Forfeited amounts are used to pay Plan expenses or fund future Company contributions to the Plan. At December 31, 2024, forfeited nonvested accounts totaled \$157. At December 31, 2023, there were no forfeited nonvested accounts. For the year ended December 31, 2024, there were no forfeited amounts used to fund Company contributions. For the year ended December 31, 2023, forfeited amounts used to fund Company contributions were \$1,733. There were no forfeited amounts used to pay Plan expenses for the years ended December 31, 2024 and 2023.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting –

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

Use of Estimates –

The preparation of financial statements in accordance with accounting principles generally accepted in the United States of America requires management 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 –

Investments are reported at fair value (except for the fully benefit-responsive investment contract, which is reported at contract 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. The Plan's Investment Committee determines the Plan's valuation policies utilizing information provided by the Plan's investment advisor, trustee and other third parties.

Contract value is the relevant measurement for that portion of the net assets available for benefits of a defined contribution plan attributable to fully benefit-responsive investment contracts, because the contract value is the amount participants would receive if they were to initiate permitted transactions under the terms of the Plan.

Purchases and sales of securities 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 includes the Plan's gains and losses on investments bought and sold as well as held during the year.

**HARVARD BIOSCIENCE, INC. 401(k) PLAN
NOTES TO FINANCIAL STATEMENTS**

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

Notes Receivable from Participants –

Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Interest income is recorded on the accrual basis. Related fees are recorded as administrative expenses and are expensed when they are incurred. No allowance for credit losses has been recorded as of December 31, 2024 and 2023. Delinquent notes receivable from participants, if applicable, are reclassified as distributions based upon the terms of the Plan document.

Payment of Benefits –

Benefits are recorded when paid.

Administrative Expenses –

Administrative expenses are paid by the Plan and the Company. Certain administrative expenses for record-keeping services, fund management, and assistance with investment decision-making are paid by the Plan. Expenses paid by the Company are excluded from these financial statements. Fees related to the administration of notes receivable from participants are charged directly to the participant's account and are included in administrative expenses. Certain expenses incurred in connection with the general administration of the Plan that are paid by the Plan are also included in administrative expenses, including certain fees that are paid through an ERISA budget account funded from a revenue sharing agreement with the Plan's recordkeeper. For the years ended December 31, 2024 and 2023, amounts from the ERISA budget account used to pay Plan expenses totaled \$24,586 and \$19,767, respectively. Investment related expenses are included in net appreciation in fair value of investments.

Date of Management's Review –

The Plan has evaluated subsequent events through October 8, 2025, the date the financial statements were available to be issued.

3. 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; inputs other than quoted prices that are observable for the asset or liability; or 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.

**HARVARD BIOSCIENCE, INC. 401(k) PLAN
NOTES TO FINANCIAL STATEMENTS**

3. FAIR VALUE MEASUREMENTS (Continued)

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 maximize the use of relevant observable inputs and minimize the use of unobservable inputs.

The following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in the methodologies used at December 31, 2024 and 2023.

Pooled separate accounts:

Valued daily based upon the units of such pooled separate accounts held by the Plan at year end multiplied by the respective accumulation unit value (AUV). The AUV is determined daily based on the net asset value (NAV) of shares of the underlying fund, the fund's dividends and the contract's separate account charges. The NAV is a readily determinable fair value of the underlying assets and is the basis for current transactions.

The following tables set forth by level, within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2024 and 2023.

Assets at Fair Value as of December 31, 2024				
Description	Level 1	Level 2	Level 3	Total
Pooled separate accounts	\$ -	\$ 48,022,302	\$ -	\$ 48,022,302
Investments, at fair value	\$ -	\$ 48,022,302	\$ -	\$ 48,022,302

Assets at Fair Value as of December 31, 2023				
Description	Level 1	Level 2	Level 3	Total
Pooled separate accounts	\$ -	\$ 46,096,835	\$ -	\$ 46,096,835
Investments, at fair value	\$ -	\$ 46,096,835	\$ -	\$ 46,096,835

There were no transfers to or from Levels 1, 2, and 3 during the Plan years ended December 31, 2024 or 2023.

**HARVARD BIOSCIENCE, INC. 401(k) PLAN
NOTES TO FINANCIAL STATEMENTS**

4. GROUP ANNUITY CONTRACT WITH INSURANCE COMPANY

The Plan has a fully benefit-responsive investment contract with Voya Retirement Insurance and Annuity Company. Amounts allocated to the Voya Fixed Account are held in the insurance company's general account, and there are no segregated or identifiable assets ascribed to the Plan's investment. Net deposits and interest credited become liabilities against Voya Retirement Insurance and Annuity Company on the Plan's behalf. The crediting interest rate is set by Voya Retirement Insurance and Annuity Company, but may not be less than 1% annually. At December 31, 2024 and 2023, the crediting interest rate was 2.20%. The crediting rate is declared in advance and is reset quarterly. Daily liquidity is available for participant contributions and withdrawals at contract value regardless of market conditions. Contract value is guaranteed by the full faith and credit of Voya Retirement Insurance and Annuity Company.

Because the guaranteed investment contract is fully benefit-responsive, contract value is the relevant measure attribute for that portion of the net assets available for benefits attributable to the guaranteed investment contract. The guaranteed investment contract is presented on the Statements of Net Assets Available for Benefits at contract value. Contract value, as reported by Voya Retirement Insurance and Annuity Company, represents contributions made under the contract, less participant withdrawals and administrative expenses, plus interest credited. Participants may ordinarily direct the withdrawal or transfer of all or a portion of their investment at contract value.

Certain events may limit the ability of the Plan to transact at contract value. Such events include termination of the contract, spin-offs, divestitures, layoffs, corporate relocation, partial or total plan termination, retirement incentive programs, and the liberalization of plan withdrawal or transfer rules. Upon occurrence of any of these events, a market value adjustment or other withdrawal restrictions may apply. The Company may choose to pay the market value adjustment directly, if applicable, so that participants' contract values are not affected. The plan administrator does not believe that any events that would limit the Plan's ability to transact at contract value with Plan participants or the issuer are probable of occurring.

5. INFORMATION PREPARED AND CERTIFIED BY PLAN'S CUSTODIAN

Certain information related to investments and notes receivable from participants disclosed in the accompanying financial statements and ERISA-required supplemental schedule, including investments and notes receivable from participants held at December 31, 2024 and 2023, and net appreciation in fair value of investments, interest and dividends, and interest income on notes receivable from participants for the years then ended, was obtained by management and agreed to or derived from information certified as complete and accurate by Voya Retirement Insurance and Annuity Company, the custodian of the Plan.

6. RISKS AND UNCERTAINTIES

The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market, and credit risk. 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.

**HARVARD BIOSCIENCE, INC. 401(k) PLAN
NOTES TO FINANCIAL STATEMENTS**

7. TAX STATUS

The Plan has adopted a volume submitter profit sharing plan and relies on the volume submitter plan sponsor's favorable opinion letter from the IRS dated June 30, 2020, in which the IRS stated that the prototype plan, as then designed, was in compliance with the applicable requirements of the Internal Revenue Code (IRC). The Plan has been amended since the date of the opinion letter. However the plan administrator believes that the Plan is designed, and is currently being operated, in compliance with the applicable requirements of the IRC. Therefore, no provision for income taxes has been included in the Plan's financial statements.

Accounting principles generally accepted in the United States of America require 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.

8. PLAN TERMINATION

Although it has not expressed any intent to do so, the Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, participants would become 100% vested in all Company contributions.

9. PARTY-IN-INTEREST TRANSACTIONS

Certain Plan investments are managed by Voya Retirement Insurance and Annuity Company. Voya Retirement Insurance and Annuity Company is the custodian of the Plan and, therefore, these transactions qualify as party-in-interest transactions. Notes receivable from participants also qualify as party-in-interest transactions. The Plan has a revenue sharing agreement with the Plan's recordkeeper, as discussed in Note 2. These transactions also qualify as party-in-interest transactions.

SUPPLEMENTAL INFORMATION

HARVARD BIOSCIENCE, INC. 401(k) PLAN
EIN: 04-3306140, PLAN NUMBER: 001

SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
DECEMBER 31, 2024

(a)	(b)	(c) Description of Investment					(d)	(e)
Identity of Issue, Borrower, Lessor or Similar Party	Type of Investment	Maturity Date	Rate of Interest	Collateral	Par or Maturity Value	Cost	Current Value	
* Vanguard 500 Index Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	\$ 5,467,401	
* Nuveen Lifecycle Index 2035 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	5,203,530	
* MainStay Winslow Large Cap Growth Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	4,764,741	
* Nuveen Lifecycle Index 2030 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	4,496,221	
* Vanguard LifeStrategy Growth Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	3,965,310	
* Nuveen Lifecycle Index 2040 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	3,221,622	
* Vanguard LifeStrategy Moderate Growth Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	2,715,319	
* Nuveen Lifecycle Index 2020 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	2,576,223	
* Nuveen Lifecycle Index 2045 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	2,142,608	
* Nuveen Lifecycle Index 2025 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	2,027,479	
* Vanguard LifeStrategy Conservative Growth Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	1,751,245	
* Nuveen Lifecycle Index 2050 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	1,632,721	
* Nuveen Lifecycle Index 2055 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	1,428,313	
* Voya Fixed Account (4450)	Insurance company general account	n/a	n/a	n/a	n/a	**	1,266,071	
* MFS Mid Cap Growth Fund Class R6	Pooled separate account	n/a	n/a	n/a	n/a	**	1,231,937	
* Mid Cap Value Fund Class R1	Pooled separate account	n/a	n/a	n/a	n/a	**	921,059	
* Large Cap Value Fund II Class R1	Pooled separate account	n/a	n/a	n/a	n/a	**	702,708	
* Vanguard Mid-Cap Index Fund Admiral Shares	Pooled separate account	n/a	n/a	n/a	n/a	**	598,904	
* International Growth Fund II R1	Pooled separate account	n/a	n/a	n/a	n/a	**	440,732	
* PIMCO Income Fund Institutional Class	Pooled separate account	n/a	n/a	n/a	n/a	**	438,727	
* JPMorgan Core Bond Fund Class R6	Pooled separate account	n/a	n/a	n/a	n/a	**	425,215	
* Vanguard Small-Cap Index Fund Admiral Shares	Pooled separate account	n/a	n/a	n/a	n/a	**	368,574	
* Nuveen Lifecycle Index 2060 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	350,147	
* Vanguard Tot International Stock Index Fund Admiral	Pooled separate account	n/a	n/a	n/a	n/a	**	285,306	
* American Funds New World Fund Class R6	Pooled separate account	n/a	n/a	n/a	n/a	**	201,259	
* Vanguard LifeStrategy Income Fund Investor Shares	Pooled separate account	n/a	n/a	n/a	n/a	**	124,169	
* Lord Abbett Short Duration Income Fund Class R6	Pooled separate account	n/a	n/a	n/a	n/a	**	117,856	
* MFS Total Return Bond Fund Class R6	Pooled separate account	n/a	n/a	n/a	n/a	**	99,577	
* Nuveen Lifecycle Index 2015 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	92,866	
* PIMCO Real Return Fund Institutional	Pooled separate account	n/a	n/a	n/a	n/a	**	81,441	
* Nuveen Lifecycle Index Retirement Income Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	77,737	
* Nuveen Lifecycle Index 2065 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	47,481	
* Nuveen Lifecycle Index 2010 Fund Institutional Class	Pooled separate account	n/a	n/a	n/a	n/a	**	23,708	
* Voya Government Money Market Fund Class A	Pooled separate account	n/a	n/a	n/a	n/a	**	166	
* Participant Loans	Participant loans	varies	3.75% - 9.50%	n/a	n/a	-0-	374,015	
							<u>\$ 49,662,388</u>	

* Parties-in-interest as defined by ERISA.

** Participant-directed investments for which historical cost is not required to be presented.

See independent auditors' report.

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HARVARD BIOSCIENCE, INC. 401(k) PLAN
EIN: 04-3306140, PLAN NUMBER: 001

SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
DECEMBER 31, 2024

(a)	(b)	(c) Description of Investment					(d)	(e)
Identity of Issue, Borrower, Lessor or Similar Party	Type of Investment	Maturity Date	Rate of Interest	Collateral	Par or Maturity Value	Cost	Current Value	
* Vanguard 500 Index Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	\$ 5,467,401	
* Nuveen Lifecycle Index 2035 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	5,203,530	
* MainStay Winslow Large Cap Growth Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	4,764,741	
* Nuveen Lifecycle Index 2030 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	4,496,221	
* Vanguard LifeStrategy Growth Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	3,965,310	
* Nuveen Lifecycle Index 2040 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	3,221,622	
* Vanguard LifeStrategy Moderate Growth Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	2,715,319	
* Nuveen Lifecycle Index 2020 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	2,576,223	
* Nuveen Lifecycle Index 2045 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	2,142,608	
* Nuveen Lifecycle Index 2025 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	2,027,479	
* Vanguard LifeStrategy Conservative Growth Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	1,751,245	
* Nuveen Lifecycle Index 2050 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	1,632,721	
* Nuveen Lifecycle Index 2055 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	1,428,313	
* Voya Fixed Account (4450)	Insurance company general account	n/a	n/a	n/a	n/a	**	1,266,071	
* MFS Mid Cap Growth Fund Class R6	Pooled separate account	n/a	n/a	n/a	n/a	**	1,231,937	
* Mid Cap Value Fund Class R1	Pooled separate account	n/a	n/a	n/a	n/a	**	921,059	
* Large Cap Value Fund II Class R1	Pooled separate account	n/a	n/a	n/a	n/a	**	702,708	
* Vanguard Mid-Cap Index Fund Admiral Shares	Pooled separate account	n/a	n/a	n/a	n/a	**	598,904	
* International Growth Fund II R1	Pooled separate account	n/a	n/a	n/a	n/a	**	440,732	
* PIMCO Income Fund Institutional Class	Pooled separate account	n/a	n/a	n/a	n/a	**	438,727	
* JPMorgan Core Bond Fund Class R6	Pooled separate account	n/a	n/a	n/a	n/a	**	425,215	
* Vanguard Small-Cap Index Fund Admiral Shares	Pooled separate account	n/a	n/a	n/a	n/a	**	368,574	
* Nuveen Lifecycle Index 2060 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	350,147	
* Vanguard Tot International Stock Index Fund Admiral	Pooled separate account	n/a	n/a	n/a	n/a	**	285,306	
* American Funds New World Fund Class R6	Pooled separate account	n/a	n/a	n/a	n/a	**	201,259	
* Vanguard LifeStrategy Income Fund Investor Shares	Pooled separate account	n/a	n/a	n/a	n/a	**	124,169	
* Lord Abbett Short Duration Income Fund Class R6	Pooled separate account	n/a	n/a	n/a	n/a	**	117,856	
* MFS Total Return Bond Fund Class R6	Pooled separate account	n/a	n/a	n/a	n/a	**	99,577	
* Nuveen Lifecycle Index 2015 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	92,866	
* PIMCO Real Return Fund Institutional	Pooled separate account	n/a	n/a	n/a	n/a	**	81,441	
* Nuveen Lifecycle Index Retirement Income Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	77,737	
* Nuveen Lifecycle Index 2065 Fund	Pooled separate account	n/a	n/a	n/a	n/a	**	47,481	
* Nuveen Lifecycle Index 2010 Fund Institutional Class	Pooled separate account	n/a	n/a	n/a	n/a	**	23,708	
* Voya Government Money Market Fund Class A	Pooled separate account	n/a	n/a	n/a	n/a	**	166	
* Participant Loans	Participant loans	varies	3.75% - 9.50%	n/a	n/a	-0-	374,015	
							<u>\$ 49,662,388</u>	

* Parties-in-interest as defined by ERISA.

** Participant-directed investments for which historical cost is not required to be presented.

See independent auditors' report.