

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500.	OMB Nos. 1210-0110 1210-0089 2022 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2022 or fiscal plan year beginning 10/01/2022 and ending 09/30/2023	
A	This return/report is for: ☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) _____
B	This return/report is: ☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
C	If the plan is a collectively-bargained plan, check here.▶ ☒
D	Check box if filing under: ☒ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)
E	If this is a retroactively adopted plan permitted by SECURE Act section 201, check here.▶ ☐

Part II	Basic Plan Information—enter all requested information		
1a	Name of plan CONSOLIDATED CASH BALANCE PROGRAM OF MASS GENERAL BRIGHAM AND MEMBER ORGANIZATIONS	1b	Three-digit plan number (PN) ▶ 499
		1c	Effective date of plan 10/01/1964
2a	Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) MASS GENERAL BRIGHAM INCORPORATED 399 REVOLUTION DRIVE SUITE 245 SOMERVILLE, MA 02145	2b	Employer Identification Number (EIN) 04-3230035
		2c	Plan Sponsor's telephone number 833-275-6947
		2d	Business code (see instructions) 622000

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

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

SIGN HERE	Filed with authorized/valid electronic signature.	07/05/2024	BRIAN MARTIN
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

3a Plan administrator's name and address ☒ Same as Plan Sponsor	3b Administrator's EIN 3c Administrator's telephone number
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name	4b EIN 4d PN
5 Total number of participants at the beginning of the plan year	5 88299
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits c Other retired or separated participants entitled to future benefits..... d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)..... h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....	6a(1) 55495 6a(2) 58747 6b 9704 6c 23347 6d 91798 6e 1018 6f 92816 6g 6h 1409
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	7
8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions: 1C 1A 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) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor
10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)	
a Pension Schedules (1) ☒ R (Retirement Plan Information) (2) ☐ MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary (3) ☒ SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary	b General Schedules (1) ☒ H (Financial Information) (2) ☐ I (Financial Information – Small Plan) (3) ☐ 0 A (Insurance Information) (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 2022 Form M-1 annual report. If the plan was not required to file the 2022 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
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For calendar plan year 2022 or fiscal plan year beginning 10/01/2022 and ending 09/30/2023

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan <u>CONSOLIDATED CASH BALANCE PROGRAM OF MASS GENERAL BRIGHAM AND MEMBER ORGANIZATIONS</u>	B Three-digit plan number (PN) ▶ <u>499</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>MASS GENERAL BRIGHAM INCORPORATED</u>	D Employer Identification Number (EIN) <u>04-3230035</u>
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I	Basic Information
1 Enter the valuation date: Month <u>10</u> Day <u>01</u> Year <u>2022</u>	
2 Assets:	
a Market value.....	2a <u>8570584733</u>
b Actuarial value	2b <u>9393859954</u>
3 Funding target/participant count breakdown	
a For retired participants and beneficiaries receiving payment	(1) Number of participants <u>10279</u> (2) Vested Funding Target <u>1937324722</u> (3) Total Funding Target <u>1937324722</u>
b For terminated vested participants.....	<u>22565</u> <u>1021362825</u> <u>1021362825</u>
c For active participants.....	<u>55559</u> <u>4318341820</u> <u>4385767773</u>
d Total	<u>88403</u> <u>7277029367</u> <u>7344455320</u>
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐	
a Funding target disregarding prescribed at-risk assumptions.....	4a
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b
5 Effective interest rate.....	5 <u>5.55 %</u>
6 Target normal cost	
a Present value of current plan year accruals.....	6a <u>316067377</u>
b Expected plan-related expenses	6b <u>11450000</u>
c Total (line 6a + line 6b)	6c <u>327517377</u>

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		<u>05/14/2024</u>
	Signature of actuary	Date
<u>JENNIFER S COLLIER, A.S.A., E.A.</u>	Type or print name of actuary	<u>23-05680</u>
		Most recent enrollment number
<u>WILLIS TOWERS WATSON US LLC</u>	Firm name	<u>617-638-3700</u>
		Telephone number (including area code)
<u>75 ARLINGTON STREET</u> <u>FLOOR 2</u> <u>BOSTON, MA 02116</u>	Address of the firm	

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

Part II Beginning of Year Carryover and Prefunding Balances		
	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year).....	0	1438474188
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9 Amount remaining (line 7 minus line 8)	0	1438474188
10 Interest on line 9 using prior year's actual return of <u>-14.70</u> %	0	-211455706
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year).....		295524579
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.68</u> %.....		16785796
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c Total available at beginning of current plan year to add to prefunding balance.....		312310375
d Portion of (c) to be added to prefunding balance.....		312310375
12 Other reductions in balances due to elections or deemed elections	0	600000000
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12).....	0	939328857

Part III Funding Percentages		
14 Funding target attainment percentage	14	115.11 %
15 Adjusted funding target attainment percentage	15	127.90 %
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement.....	16	113.26 %
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls					
18 Contributions made to the plan for the plan year by employer(s) and employees:					
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
10/24/2022	12753000	0	01/23/2023	11158500	0
10/28/2022	0	7729	01/27/2023	0	8007
11/22/2022	12753000	0	02/22/2023	11158500	0
11/25/2022	0	7862	02/24/2023	0	7273
12/22/2022	12753000	0	03/22/2023	11158500	0
12/30/2022	0	9238	03/31/2023	0	9311
Totals ▶			18(b)	105210000	18(c) 96979

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:		
a Contributions allocated toward unpaid minimum required contributions from prior years.....	19a	0
b Contributions made to avoid restrictions adjusted to valuation date.	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.	19c	103069222
20 Quarterly contributions and liquidity shortfalls:		
a Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No		
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No		
c If line 20a is "Yes," see instructions and complete the following table as applicable:		

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part II	Beginning of Year Carryover and Prefunding Balances	
	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year).....		
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)		
9 Amount remaining (line 7 minus line 8)		
10 Interest on line 9 using prior year's actual return of _____%		
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year).....		
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of _____%.....		
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		
c Total available at beginning of current plan year to add to prefunding balance.....		
d Portion of (c) to be added to prefunding balance.....		
12 Other reductions in balances due to elections or deemed elections		
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12).....		

Part III	Funding Percentages	
14 Funding target attainment percentage	14	%
15 Adjusted funding target attainment percentage	15	%
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement.....	16	%
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV	Contributions and Liquidity Shortfalls					
18 Contributions made to the plan for the plan year by employer(s) and employees:						
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	
04/24/2023	11158500	0	07/28/2023	0	7264	
04/28/2023	0	7267	08/25/2023	0	6926	
05/22/2023	11158500	0	09/29/2023	0	9007	
05/26/2023	0	7464				
06/22/2023	11158500	0				
06/30/2023	0	9631				
			Totals ►	18(b)	18(c)	

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:	
a Contributions allocated toward unpaid minimum required contributions from prior years.....	19a
b Contributions made to avoid restrictions adjusted to valuation date.	19b
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.	19c
20 Quarterly contributions and liquidity shortfalls:	
a Did the plan have a "funding shortfall" for the prior year?..... ☐ Yes ☐ No	
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No	
c If line 20a is "Yes," see instructions and complete the following table as applicable:	
Liquidity shortfall as of end of quarter of this plan year	
(1) 1st	(2) 2nd
(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:			
a Segment rates:	1st segment: 4.75 %	2nd segment: 5.18 %	3rd segment: 5.92 %
			☐ N/A, full yield curve used
b Applicable month (enter code).....			21b 4
22 Weighted average retirement age			22 64
23 Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute			

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.		☒ Yes ☐ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.		☐ Yes ☒ No
26 Demographic and benefit information		
a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.		☒ Yes ☐ No
b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ...		☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	27	

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years.....	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6c).....		31a	327517377
b Excess assets, if applicable, but not greater than line 31a		31b	327517377
32 Amortization installments:		Outstanding Balance	Installment
a Net shortfall amortization installment		0	0
b Waiver amortization installment		0	0
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount		33	
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)....		34	0
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	0	0	0
36 Additional cash requirement (line 34 minus line 35)		36	0
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....		37	103069222
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)		38a	103069222
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances		38b	0
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)		39	0
40 Unpaid minimum required contributions for all years.....		40	0

Part IX Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)

41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. ☐ 2019 ☐ 2020 ☐ 2021

SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	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.	OMB No. 1210-0110
		2022
		This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 10/01/2022 and ending 09/30/2023	
A Name of plan CONSOLIDATED CASH BALANCE PROGRAM OF MASS GENERAL BRIGHAM AND MEMBER ORGANIZATIONS	B Three-digit plan number (PN) ▶ 499
C Plan sponsor's name as shown on line 2a of Form 5500 MASS GENERAL BRIGHAM INCORPORATED	D Employer Identification Number (EIN) 04-3230035

Part I	Service Provider Information (see instructions)
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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
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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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

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

ALIGHT SOLUTIONS LLC

200 WEST STREET
4TH FLOOR
WALTHAM, MA 02451

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
15 38 50	NONE	2625720	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

WILLIS TOWERS WATSON LLC

53-0181291

(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?
11 50	NONE	355880	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

STATE STREET CORPORATION

04-1867445

(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?
21 50	TRUSTEE	233724	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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)

CONDUENT

16-0468020

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
15 50	NONE	106032	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

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

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

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

Part I Service Provider Information (continued)

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

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

Part II Service Providers Who Fail or Refuse to Provide Information

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

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

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

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

Explanation:

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

Explanation:

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

Explanation:

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

Explanation:

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

Explanation:

SCHEDULE D (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration	DFE/Participating Plan Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection.
	For calendar plan year 2022 or fiscal plan year beginning 10/01/2022 and ending 09/30/2023	

A Name of plan CONSOLIDATED CASH BALANCE PROGRAM OF MASS GENERAL BRIGHAM AND MEMBER ORGANIZATIONS		B Three-digit plan number (PN) ►	499
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 MASS GENERAL BRIGHAM INCORPORATED		D Employer Identification Number (EIN) 04-3230035	

Part I	Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)		
a Name of MTIA, CCT, PSA, or 103-12 IE: PARTNERS HC MASTER TRUST FOR ERISA			
b Name of sponsor of entity listed in (a): MASS GENERAL BRIGHAM			
c EIN-PN 04-3294527-004	d Entity code M	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 9075320480	
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)**

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

a Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN

SCHEDULE H (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
For calendar plan year 2022 or fiscal plan year beginning <u>10/01/2022</u> and ending <u>09/30/2023</u>		
A Name of plan <u>CONSOLIDATED CASH BALANCE PROGRAM OF MASS GENERAL BRIGHAM AND MEMBER ORGANIZATIONS</u>	B Three-digit plan number (PN) ►	499
C Plan sponsor's name as shown on line 2a of Form 5500 <u>MASS GENERAL BRIGHAM INCORPORATED</u>	D Employer Identification Number (EIN) <u>04-3230035</u>	

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)		
(9) Value of interest in common/collective trusts.....	1c(9)		
(10) Value of interest in pooled separate accounts	1c(10)		
(11) Value of interest in master trust investment accounts.....	1c(11)	8570584733	9075320480
(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)		
(15) Other	1c(15)		

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	8570584733	9075320480

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	8570584733	9075320480
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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)	105210000	
(B) Participants	2a(1)(B)	96979	
(C) Others (including rollovers)	2a(1)(C)		
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		105306979
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)		
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		0
(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)		
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		0
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(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)		0
(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)		0

		(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)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		752199417
(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		857506396
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	341276639	
(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)		341276639
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses: (1) Professional fees	2i(1)	3374698	
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)		
(4) Other	2i(4)	8119312	
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		11494010
j Total expenses. Add all expense amounts in column (b) and enter total	2j		352770649
Net Income and Reconciliation			
k Net income (loss). Subtract line 2j from line 2d	2k		504735747
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: WOLF & COMPANY, P.C.

(2) EIN: 04-2689883

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

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

Part IV Compliance Questions

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

During the plan year:

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.)

	Yes	No	Amount
4a		X	

	Yes	No	Amount
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)			
4b		X	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)			
4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)			
4d		X	
e Was this plan covered by a fidelity bond?	X		10000000
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	
4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)		X	
4i		X	
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)		X	
4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		X	
4k		X	
l Has the plan failed to provide any benefit when due under the plan?		X	
4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)		X	
4m		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			
4n			

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

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

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

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) ☒ Yes ☐ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 504729.

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection.
For calendar plan year 2022 or fiscal plan year beginning 10/01/2022 and ending 09/30/2023		
A Name of plan CONSOLIDATED CASH BALANCE PROGRAM OF MASS GENERAL BRIGHAM AND MEMBER ORGANIZATIONS		B Three-digit plan number (PN) 499
C Plan sponsor's name as shown on line 2a of Form 5500 MASS GENERAL BRIGHAM INCORPORATED		D Employer Identification Number (EIN) 04-3230035
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): 04-6736900		
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 2089
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		
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.		
Schedule R (Form 5500) 2022 v. 220413		

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

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

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

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

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

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

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

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

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

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

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

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

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

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

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

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

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

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

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

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

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

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

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

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

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

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

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

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

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

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

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

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

14	Enter the number of deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:		
	a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: ☐ last contributing employer ☐ alternative ☐ reasonable approximation (see instructions for required attachment).....	14a	
	b The plan year immediately preceding the current plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14b	
	c The second preceding plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14c	
15	Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:		
	a The corresponding number for the plan year immediately preceding the current plan year.....	15a	
	b The corresponding number for the second preceding plan year.....	15b	
16	Information with respect to any employers who withdrew from the plan during the preceding plan year:		
	a Enter the number of employers who withdrew during the preceding plan year	16a	
	b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers.....	16b	
17	If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐		

Part VI	Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans
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18	If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐
19	If the total number of participants is 1,000 or more, complete lines (a) through (c) a Enter the percentage of plan assets held as: Stock: <u>46.0</u> % Investment-Grade Debt: <u>8.0</u> % High-Yield Debt: <u>0.0</u> % Real Estate: <u>2.0</u> % Other: <u>44.0</u> % b Provide the average duration of the combined investment-grade and high-yield debt: ☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☒ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more c What duration measure was used to calculate line 19(b)? ☒ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify):
20	PBGC missed contribution reporting requirements. If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20. a Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? ☐ Yes ☒ No b If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box: ☐ Yes. ☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date. ☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date. ☐ No. Other. Provide explanation _____

**Consolidated Cash Balance
Program of Mass General
Brigham and Member
Organizations**

Financial Statements

As of September 30, 2023 and 2022 and
for the Year Ended September 30, 2023

Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

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Independent Auditor's Report

Plan Sponsor
Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

Opinion

We have audited the financial statements of the Consolidated Cash Balance Program of Mass General Brigham and Member Organizations (the Plan), an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), which comprise the statements of net assets available for benefits as of September 30, 2023 and 2022, the related statement of changes in net assets available for benefits for the year ended September 30, 2023, and the related notes to the financial statements.

In our opinion, the accompanying financial statements present fairly, in all material respects, the net assets available for benefits of the Plan as of September 30, 2023 and 2022, and the changes in its net assets available for benefits for the year ended September 30, 2023, in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

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

Responsibilities of Management for the Financial Statements

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

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

Auditor's Responsibilities for the Audit of the Financial Statements

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

In performing an audit in accordance with GAAS, we:

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

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

Wolf + Company, P.C.

Boston, Massachusetts
June 5, 2024

Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

Statements of Net Assets Available for Benefits

(\$ in thousands)

<i>September 30,</i>	2023	2022
Assets		
Investments, at fair value:		
Plan interest in Master Trust	\$ 9,075,320	\$ 8,570,585
Net assets available for benefits	\$ 9,075,320	\$ 8,570,585

See accompanying notes to the financial statements.

Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

Statement of Changes in Net Assets Available for Benefits

(\$ in thousands)

<i>Year Ended September 30,</i>	<i>2023</i>
Additions:	
Investment income:	
Plan interest in Master Trust investment income	\$ 752,199
Employer contributions	105,307
Total additions	857,506
Deductions:	
Benefits paid to participants	341,277
Administrative expenses	11,494
Total deductions	352,771
Net increase	504,735
Net assets available for benefits, beginning of year	8,570,585
Net assets available for benefits, end of year	\$ 9,075,320

See accompanying notes to the financial statements.

Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

Notes to Financial Statements

(\$ in thousands)

1. Description of Plan

General

The Consolidated Cash Balance Program of Mass General Brigham and Member Organizations (the Plan) is a defined benefit plan covering substantially all employees of Mass General Brigham Incorporated (MGBI, the Plan Sponsor), and most of its affiliated organizations who have attained age 21 and completed one year of eligibility service (1,000 hours or more). Employees who were employed before January 1, 2016, at the The General Hospital Corporation, Massachusetts General Physicians Organization, Inc. and The MGH Institute of Health Professions, Inc. will receive benefits according to a historical plan design.

The Plan includes certain legacy plans that over time have merged into the Plan. The mergers did not result in any change in the benefits, rights or features of any participants or beneficiaries under the respective plans.

Information about the Plan agreement and the Pension Benefit Guaranty Corporation's (PBGC) benefit guarantee is contained in the Plan's Summary Plan Description. Copies of this pamphlet are available to Plan members (Members) from the MGBI Human Resources Support Center.

The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA).

Vesting

Benefits become vested after completing three years of vesting service.

Pension Benefits

Benefits under the Plan are based on a participant's account balance and are paid at retirement or termination of employment. A participant may elect to defer commencement of benefits until they reach the Minimum Required Distribution age according to federal rules. Benefits are paid in a lump-sum payment or as an actuarially equivalent annuity. Annual allocations are made to participant accounts based on the participant age, years of service, salary and employer. Interest is credited to participant accounts annually at the one-year Treasury Bond rate for the month of September preceding such twelve month period plus 100 basis points, but not less than 5.0 percent or not more than 12.0 percent. The Plan permits early retirement for employees age 55 to 64. Distributions are made under the terms of the Plan because of death, retirement or disability, with special provisions existing for terminated employees.

Pre-retirement Death and Disability Benefits

Vested Members are entitled to pre-retirement death benefit coverage. The death benefit payable to the Member's spouse or beneficiary is determined using the beneficiary's age at the birthday nearest to the date in which the benefits will commence. Active employees who became totally disabled receive annual disability benefits that are equal to the normal retirement benefits they have accumulated as of the time they become disabled. Disability benefits are paid until normal

Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

Notes to Financial Statements

(\$ in thousands)

retirement age at which time disabled participants begin receiving normal retirement benefits computed as though they had been employed to normal retirement age.

2. Summary of Significant Accounting Policies

Basis of Accounting

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

Use of Estimates

The preparation of the accompanying 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 net assets available for benefits at the date of the financial statements and the actuarial present value of accumulated plan benefits as of the benefit information date, the changes in net assets available for benefits during the reporting period, and, when applicable, the disclosures of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

Investment Valuation and Income Recognition

Investments are carried at fair value. The fair value of the Plan's interest in the MGB ERISA Master Trust (the Master Trust) is based on the beginning of year value of the Plan's interest in the Master Trust, plus actual contributions and investment income, less actual distributions and expenses (investment manager fees). Fair value of investments in the Master Trust are determined when available by reference to published market quotations. Investments in registered investment companies and common trusts are valued at their net asset values (NAV). Partnerships are reported based upon the value of the Master Trust's capital account in such partnerships, which approximates fair value. Partnerships do not have readily ascertainable market values but are valued by the investment manager using the following methodology: investments in securities sold short or traded on a national securities exchange are valued based on quoted market prices; investments in securities that are not traded and restricted securities of public companies are valued based on amounts reported by the fund manager and evaluated by management. 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.

The Master Trust in which the Plan invests may utilize forward currency exchange contracts to manage exposure to currency fluctuations and hedge against adverse changes in connection with purchases and sales of securities. The contracts are recorded at fair value based on the applicable translation rates and any resulting change in unrealized appreciation (depreciation) is recorded in the statement of changes in net assets available for benefits as part of the Plan's interest in Master Trust investment income (loss). Realized gains (losses) are recorded at the time the forward contract matures or by delivery of the currency. As of September 30, 2023 and 2022, net unrealized depreciation on forward currency exchange contracts was (\$757) and (\$1,696), respectively.

Actuarial Present Value of Accumulated Plan Benefits

Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

Notes to Financial Statements

(\$ in thousands)

Accumulated plan benefits are those estimated future periodic payments, including lump-sum distributions, that are attributable under the Plan's provisions to services rendered by employees to the valuation date. Accumulated plan benefits include benefits expected to be paid to (a) retired or terminated employees or their beneficiaries and (b) present employees or their beneficiaries. Benefits under the Plan are based on employees' compensation during their years of service. The accumulated plan benefits for active employees are based on their compensation for all service years ending on the date for which the benefit information is presented (the valuation date).

Benefits payable under all circumstances (retirement, death, disability and termination of employment) are included to the extent they are deemed attributable to employee service rendered to the valuation date.

A consulting actuary estimates the actuarial present value of accumulated Plan benefits, which is the amount that results from applying actuarial assumptions to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements such as for death, disability, withdrawal or retirement) between the valuation date and the expected date of payment.

Payment of Benefits

Benefit payments to participants are recorded upon distribution.

Administrative Expenses

The Plan's expenses are paid either by the Plan (through the Master Trust) or the Plan Sponsor, as provided by the plan document. Expenses that are paid directly by the Plan Sponsor are excluded from these financial statements. Certain expenses incurred in connection with the general administration of the Plan that are paid by the Plan are recorded as deductions in the accompanying statement of changes in net assets available for benefits. In addition, certain investment related expenses are included in the Master Trust investment income (loss) presented in the accompanying statement of changes in net assets available for benefits.

3. Funding Policy

The Plan Sponsor's funding policy is to contribute the net periodic pension cost, if any, accrued each year, but not less than the minimum required employer contribution under ERISA. The Plan has met the ERISA minimum funding requirements for the years ended September 30, 2023 and 2022. Additionally, the Plan Sponsor may from time to time contribute in excess of the net periodic pension cost and the minimum required contribution under ERISA to ensure certain plan funding levels.

Although they have not expressed any intention to do so, the Plan Sponsor has the right under the Plan to discontinue their contributions at any time and to terminate their participation in the Plan, subject to the provisions set forth in ERISA.

Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

Notes to Financial Statements

(\$ in thousands)

4. Accumulated Plan Benefits

The accumulated plan benefit information is as follows as of:

<i>September 30,</i>	2023	2022
Actuarial present value of accumulated plan benefits:		
Vested benefits:		
Participants currently receiving payments	\$ 1,816,914	\$ 1,705,248
Other participants	4,721,752	4,366,437
Total vested benefits	6,538,666	6,071,685
Nonvested benefits	54,018	54,139
Total actuarial present value of accumulated plan benefits	\$ 6,592,684	\$ 6,125,824

The significant assumptions underlying the actuarial computations were:

<i>September 30,</i>	2023	2022
Assumed credit interest rate on cash balance accounts	5.50%	5.25%
Assumed interest rate for benefit obligations	7.00%	7.00%
Assumed retirement age with an average retirement age of 64	62 - 75	62 - 75

Assumed 2023 and 2022 mortality for non-annuitants was based on Pri-2012 “Employees” table without collar and base year of 2012, projected generationally using Scale MP-2021 and for annuitants was based on Pri-2012 “Healthy Annuitants” table without collar and base year 2012, projected generationally using Scale MP-2021, with separate mortality after the participant’s death, based on Pri-2012 “Contingent Survivor” table without collar and base year 2012, projected generationally using Scale MP-2021.

The significant changes in the actuarial present value of accumulated plan benefits for the Plan are as follows:

<i>September 30,</i>	2023	2022
Beginning value	\$ 6,125,824	\$ 5,867,291
Increase due to the passage of time	434,448	415,054
Benefits accumulated and effect of non-investment experience	248,327	254,596
Actuarial loss	27,423	74,812
Benefits paid	(341,277)	(391,723)
Change in actuarial assumption	97,939	(94,206)
Ending value	\$ 6,592,684	\$ 6,125,824

Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

Notes to Financial Statements

(\$ in thousands)

5. Plan Termination

In the event the Plan terminates, the net assets of the Plan will be allocated, as prescribed by ERISA and its related regulations, generally to provide the following benefits in the order indicated:

- a) Annuity benefits that former employees or their beneficiaries have been receiving for at least three years, or that employees eligible to retire for that three-year period would have been receiving if they had retired with benefits in the normal form of annuity under the Plan.
- b) Other vested benefits insured by the PBGC up to the applicable limitations, as described in ERISA.
- c) All other vested benefits (that is, vested benefits not insured by the PBGC).
- d) All nonvested benefits.

Certain benefits under the Plan are insured by the PBGC if the Plan terminates. Generally, the PBGC guarantees most vested normal age retirement benefits, early retirement benefits, and certain disability and survivor's pensions. However, the PBGC does not guarantee all types of benefits under the Plan, and the amount of benefit protection is subject to certain limitations.

Whether all participants receive their benefits should the Plan terminate at some future time will depend on the sufficiency, at that time, of the Plan's net assets to provide for accumulated benefit obligations and may also depend on the financial condition of the Plan Sponsor and the Affiliates and the level of benefits guaranteed by the PBGC.

6. Interest in the Master Trust

The assets of the Plan are pooled and invested in the Master Trust. The assets of the Master Trust are held by the State Street Bank and Trust Company.

At September 30, 2023 and 2022, the Plan had a 100% interest in the net assets of the Master Trust.

The Master Trust invests in a variety of assets which include private partnerships whose assets include equity, fixed income and other investments. As of September 30, 2023 and 2022, the Master Trust has unfunded commitments of \$1,275,295 and \$1,479,198 which will be drawn down by the various general partners over the next several years. The maximum annual drawdown is expected to be 3 to 5 percent of investments.

The following table presents the fair values of net assets for the Master Trust as of:

Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

Notes to Financial Statements

(\$ in thousands)

September 30,	2023	2022
Investments, at fair value:		
Private partnerships and commingled funds	\$ 8,374,522	\$ 7,946,354
Separately managed investments	525,745	480,600
Short-term investments	175,053	143,631
Total investments, at fair value	\$ 9,075,320	\$ 8,570,585

The following table presents the investment income for the Master Trust for the year ended:

September 30,	2023
Investment income:	
Net appreciation in fair value of investments	\$ 735,645
Dividends	5,123
Interest	30,160
Foreign currency loss	(6,069)
Change in receivable/payable	990
Investment expenses	(13,650)
Total net dividend and interest	16,554
Total investment income	\$ 752,199

7. Fair Value Measurements

Fair value is defined as 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 (also referred to as exit price). Therefore, a fair value measurement should be determined based on the assumptions that market participants would use in pricing the asset or liability. In determining fair value, the use of various valuation approaches, including market, income, and cost approaches, is permitted.

Fair Value Hierarchy

A fair value hierarchy has been established based on whether the inputs to valuation techniques are observable or unobservable. Observable inputs reflect market data obtained from independent sources, while unobservable inputs reflect the reporting entity's assumptions about the inputs market participants would use. The fair value hierarchy requires the reporting entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. In addition, for hierarchy classification purposes, the reporting entity should not look through the form of an investment to the nature of the underlying securities held by an investee.

The hierarchy is described below:

Level 1: Valuations using quoted prices in active markets for identical assets or liabilities. Valuations of these products do not require a significant degree of judgment. Level 1 assets and liabilities primarily include debt and equity securities that are traded in an active exchange market.

Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

Notes to Financial Statements

(\$ in thousands)

Level 2: Valuations using observable inputs other than Level 1 prices such as quoted prices in active markets for similar assets or liabilities; quoted prices for identical or similar assets or liabilities in markets that are not active; broker or dealer quotations; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3: Valuations using unobservable inputs that are supported by little or no market activity and are significant to the fair value of the assets or liabilities.

Valuation Techniques

All investments, except for some partnerships and commingled funds, are classified within Level 1 or Level 2 of the fair value hierarchy as they are valued using quoted market prices, broker or dealer quotations, or other observable pricing sources. In evaluating the Level at which the Master Trust's private partnerships have been classified within the fair value hierarchy, management has assessed factors including, but not limited to price transparency, the ability to redeem these investments at net asset value (NAV) at the measurement date and the existence or absence of certain restrictions at the measurement date. Investments in private partnerships generally have limited redemption options for investors and, subsequent to final closing, may or may not permit subscriptions by new or existing investors. These entities may also have the ability to impose gates, lockups and other restrictions on an investor's ability to readily redeem out of their investment interest in the fund. The private partnerships use NAV as the practical expedient in reporting their value. As of September 30, 2023 and 2022, the Plan has excluded all assets from the fair value hierarchy for which fair value is measured at NAV per share using the practical expedient.

The following tables summarize fair value measurements for financial assets measured at fair value on a recurring basis or valued using NAV as a practical expedient:

September 30, 2023					
Fair Value Measurements Using					
	Quoted Prices in Active Markets for Identical Items (Level 1)	Significant Other Observable Inputs (Level 2)	Investments Valued Using NAV as a Practical Expedient	Total	
Short-term investments	\$ 175,053	\$ -	\$ -	\$	175,053
Separately managed investments	370,293	155,452	-	-	525,745
Private partnerships and commingled funds	-	-	8,374,522	-	8,374,522
Total investments, at fair value	\$ 545,346	\$ 155,452	\$ 8,374,522	\$	9,075,320

Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

Notes to Financial Statements

(\$ in thousands)

	September 30, 2022				
	Fair Value Measurements Using				
	Quoted Prices in Active Markets for Identical Items (Level 1)	Significant Other Observable Inputs (Level 2)	Investments Valued Using NAV as a Practical Expedient	Total	
Short-term investments	\$ 143,631	\$ -	\$ -	\$ 143,631	
Separately managed investments	336,538	144,062	-	480,600	
Private partnerships and commingled funds	-	-	7,946,354	7,946,354	
Total investments, at fair value	\$ 480,169	\$ 144,062	\$ 7,946,354	\$ 8,570,585	

8. Tax Status

The Master Trust established under the Plan to hold the Plan's assets is intended to be exempt pursuant to the appropriate section of the Internal Revenue Code (IRC). The Plan obtained its latest determination letter on March 29, 2021 in which the Internal Revenue Service (IRS) stated that the design of the Plan was in compliance with the applicable requirements of the IRC. The Plan Sponsor believes that the Plan is currently designed and being operated in compliance with the applicable requirements of the IRC. Therefore, the Plan Sponsor believes that the Plan was qualified and the Master Trust was tax-exempt as of the financial statement date. Accordingly, no provision for income tax has been recorded in the accompanying financial statements.

Accounting guidance requires the Plan Sponsor to evaluate tax positions taken by the Plan and recognize a liability (or asset) if the Plan has taken an uncertain tax position that more likely than not would not be sustained upon examination by the IRS. Plan Sponsor has concluded there are no uncertain positions taken. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress. The Plan Sponsor believes it is no longer subject to examinations for years prior to 2020.

9. Risks and Uncertainties

The Plan provides for investments in the Master Trust. These investments in the Master Trust include investments in short-term investments, separately managed investments (including preferred and common stocks, registered investment companies, corporate and government debt), commingled funds, and private partnerships. These investments are exposed to various risks, such as interest rate, market and credit risks. Due to the level of risk associated with certain investments, it is at least reasonably possible that changes in the value of investments will occur in the near-term and that such changes could materially affect the amounts reported in the statements of net assets available for benefits.

Contributions to the Plan are made and the actuarial present value of accumulated plan benefits are reported based on certain assumptions pertaining to interest rates, inflation rates, and employee compensation and demographics, all of which are subject to change. Due to the

Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

Notes to Financial Statements

(\$ in thousands)

uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible that changes in these assumptions in the near-term would be material to the financial statements.

10. Subsequent Events

The Plan has assessed the impact of subsequent events through June 5, 2024, which is the date the financial statements were available for issuance. There were no such events that required adjustment or disclosure in the notes to the audited financial statements.

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 26a Schedule of Active Participant Data as of October 1, 2022

Attained Age	Attained Years of Credited Service ⁴										Total
	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	
Under 25	4	2,112	30	0	0	0	0	0	0	0	2,146
	-	44,729	40,970	0	0	0	0	0	0	0	44,658
25-29	6	4,466	1,370	34	0	0	0	0	0	0	5,876
	-	39,649	68,490	61,972	0	0	0	0	0	0	60,339
30-34	6	3,314	3,284	708	44	1	0	0	0	0	7,357
	-	73,242	81,280	83,523	67,691	0	0	0	0	0	77,772
35-39	5	2,113	2,747	1,809	614	34	2	0	0	0	7,324
	-	88,324	104,196	109,207	97,123	111,278	0	0	0	0	100,274
40-44	7	1,377	1,769	1,510	1,270	396	11	0	0	0	6,340
	-	82,179	108,335	128,433	127,665	121,064	0	0	0	0	112,073
45-49	6	1,125	1,284	1,070	1,340	967	219	10	0	0	6,021
	-	83,957	99,102	121,736	136,616	137,674	124,281	0	0	0	115,749
50-54	5	957	1,106	972	1,040	1,002	469	214	21	1	5,787
	-	81,240	97,363	105,431	114,982	131,490	141,035	115,903	91,746	0	109,281
55-59	5	810	1,066	887	981	959	563	392	268	19	5,950
	-	80,140	93,539	92,190	101,598	114,361	134,639	132,655	129,669	0	104,256
60-64	3	603	829	737	856	763	473	411	387	261	5,323
	-	79,037	98,529	89,327	95,035	99,156	110,954	118,386	123,814	115,743	99,870
65-69	1	260	350	330	375	353	265	218	161	235	2,548
	-	76,405	90,174	92,276	93,271	100,818	96,024	94,719	100,899	114,528	94,858
70 & over	1	89	100	111	118	137	73	79	59	120	887
	-	68,378	79,180	79,267	93,550	81,773	84,806	60,289	50,231	74,238	77,119
Total	49	17,226	13,935	8,168	6,638	4,612	2,075	1,324	896	636	55,559
	43,336	70,048	92,979	106,798	113,653	119,004	122,823	114,960	115,851	106,875	94,654

⁴ Age and service for purposes of determining category are based on exact (not rounded) values.

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SCHEDULE SB ATTACHMENTS

Schedule SB, Line 26a - Schedule of Active Participant Data as of October 1, 2022

Number and average account balance distributed by attained age and attained years of credited service

Attained Age	Attained Years of Credited Service ⁵										Total
	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	
Under 25	3	2,082	30	0	0	0	0	0	0	0	2,115
	-	983	3,649	-	-	-	-	-	-	-	1,020
25-29	5	4,460	1,370	34	0	0	0	0	0	0	5,869
	-	3,069	12,126	16,711	-	-	-	-	-	-	5,260
30-34	3	3,311	3,284	707	44	1	0	0	0	0	7,350
	-	4,393	17,968	38,822	31,321	-	-	-	-	-	13,931
35-39	4	2,101	2,743	1,809	614	34	2	0	0	0	7,307
	-	6,077	22,665	49,977	69,361	58,896	-	-	-	-	28,748
40-44	5	1,371	1,759	1,509	1,270	396	11	0	0	0	6,321
	-	6,245	27,363	51,357	85,670	123,981	-	-	-	-	46,486
45-49	3	1,112	1,279	1,067	1,339	966	219	10	0	0	5,995
	-	7,168	27,418	56,491	89,310	145,798	190,926	-	-	-	67,883
50-54	4	940	1,091	961	1,035	1,001	467	214	21	1	5,735
	-	7,417	30,612	66,381	104,313	152,620	224,995	266,421	134,009	-	92,411
55-59	3	787	1,056	878	977	955	562	390	268	19	5,895
	-	8,693	34,528	72,091	112,046	181,967	234,495	342,873	412,565	-	130,845
60-64	2	579	811	726	845	757	470	409	387	261	5,247
	-	11,739	42,872	83,474	126,901	192,859	243,767	343,171	451,031	461,243	172,528
65-69	0	252	340	327	371	350	264	218	161	235	2,518
	-	14,704	46,756	95,598	147,231	212,649	248,066	313,980	440,544	497,632	199,254
70 & over	1	87	99	108	117	136	72	79	59	119	877
	-	16,210	40,302	92,252	118,158	190,351	171,671	270,166	304,285	438,141	181,154
Total	33	17,082	13,862	8,126	6,612	4,596	2,067	1,320	896	635	55,229
	4,079	4,994	24,932	59,699	100,645	166,409	228,769	319,911	420,548	464,638	70,859

⁵ Age and service for purposes of determining category are based on exact (not rounded) values.

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Schedule SB, Part V Statement of Actuarial Assumptions/Methods

Actuarial Assumptions and Methods									
Economic Assumptions									
Interest Rate Basis:									
Applicable Month						June 2022			
Interest Rate Basis						3-Segment Rates			
Interest Rates:				Reflecting Stabilization		Not Reflecting Stabilization			
First Segment Rate				4.75%		1.02%			
Second Segment Rate				5.18%		2.80%			
Third Segment Rate				5.92%		3.38%			
Effective Interest Rate				5.55%		3.12%			
Annual rates of increase ¹									
Compensation:			Rates of % increase varying by age						
- Representative rates			Age	CCB	MGH Prof Staff	MGH/ BWH Nurses ²	BWH	BWH Prof Staff	CDH
			25	5.85%	6.85%	5.00%	7.00%	8.00%	3.50%
			30	5.35%	6.35%	5.00%	6.00%	7.00%	3.50%
			40	4.45%	5.45%	5.00%	4.50%	5.50%	3.50%
			50	3.45%	4.45%	5.00%	3.50%	4.50%	3.50%
			60	3.00%	4.00%	5.00%	3.00%	4.00%	3.50%
- Weighted Average				3.45%	4.45%	5.00%	3.48%	4.48%	3.50%
- FY22 one-time additional increase				0.50%	N/A	1.50%	2.50%	N/A	0.50%

¹ Annual rates of increase are not applicable to former NCH participants since the plan is frozen

² Salary scale shown used for first 18 years of service, which then changes to the salary scale under the respective group.

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Future Social Security wage bases ³	3.00%
Statutory limits on compensation and benefits	N/A
Cash Balance interest crediting rate	5.25%; N/A for CDH
CDH Employee contribution interest rate	4.00%
Plan-related Expenses	\$ 11,450,000
As permitted by law, rates reflecting stabilization are used to determine the funding target and target normal cost, and thus the minimum required contribution under IRC §430 for the plan. Because these assumptions are subject to a corridor based on average interest rates over a 25-year period, they may differ from (and currently are higher than) current market interest rates, and may be inconsistent with other economic assumptions used in the valuation.	
Rates not reflecting stabilization are used to determine PBGC variable rate premiums if the alternative method is used, and are used to determine the PBGC FTAP and the PBGC 4010 FS.	
Demographic and Other Assumptions	
Inclusion date	The valuation date coincident with or next following the date on which the employee becomes a participant.
New or rehired employees	It was assumed there will be no new or rehired employees after the census date.
Mortality – Healthy and Disabled	Separate rates for non-annuitants (based on RP-2014 “Employees” table without collar or amount adjustments, adjusted backward to 2006 with MP-2014, and then projected forward with a static projection as specified in the regulations under §1.430(h)(3)-1 using Scale MP-2020) and annuitants (based on RP-2014 “Healthy Annuitants” table without collar or amount adjustments, adjusted backward to 2006 with MP-2014, and then projected forward with a static projection as specified in the regulations under §1.430(h)(3)-1 using Scale MP-2020).
Termination (not due to retirement) rates	Rates as set forth in Exhibit A. None are assumed for former NCH participants.

³ Applicable for CCB and CDH

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Disability	For CDH, 1985 Pension Disability Table Class 1 for males & females. None assumed for all other entities.																
Retirement	100% at age 65 or present age, if older, for former NCH participants. For CDH, age 65. However, 50% of participants with 25 years of service before age 65 are assumed to retire at the later of the completion of 25 years of service and attainment of age 62. For all other participants, rates varying by age, average age 64 Representative rates: <table> <tr> <th colspan="2">Percentage assumed to retire during the year</th></tr> <tr> <th>Age</th><th>Rate</th></tr> <tr> <td>55-59</td><td>5.00%</td></tr> <tr> <td>60-62</td><td>7.50%</td></tr> <tr> <td>63-64</td><td>10.00%</td></tr> <tr> <td>65</td><td>15.00%</td></tr> <tr> <td>66-74</td><td>20.00%</td></tr> <tr> <td>75+</td><td>100.00%</td></tr> </table>	Percentage assumed to retire during the year		Age	Rate	55-59	5.00%	60-62	7.50%	63-64	10.00%	65	15.00%	66-74	20.00%	75+	100.00%
Percentage assumed to retire during the year																	
Age	Rate																
55-59	5.00%																
60-62	7.50%																
63-64	10.00%																
65	15.00%																
66-74	20.00%																
75+	100.00%																
Percent Married	80% for CDH 70% for UH N/A for all other participants																
Beneficiary Age	Beneficiaries are assumed to be the same age as the participant.																

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Benefit commencement date and form of payment for participants in the CCB and BWH, and MEEI sub-plans	Participant Status	Decrement	Form of Payment	Election Percent	Commencement Date
	Active	Death	Lump Sum	100%	Paid on death
	Active	Termination*	Lump Sum	44%	Age 65 or date of termination, if later
	Active	Termination*	Lump sum	12%	Date of termination
	Active	Termination*	Annuity**	44%	Age 65 or date of termination, if later
	Active	Retirement*	Lump sum	20%	Date of retirement
	Active	Retirement*	Annuity**	80%	Date of retirement
	Deferred Vested	Retirement*	Lump sum	50%	Age 65 or date of valuation, if later
	Deferred Vested	Retirement*	Annuity**	50%	Age 65 or date of valuation, if later
* For former NCH participants, 100% of actives are assumed to elect a 50% contingent annuity at age 55 or date of termination if later. For Deferred Vested participants who only have an annuity option (no cash balance account), the benefit is assumed to be payable as a single life annuity at age 65, unless an optional form was provided to us on the client data. **Of those who elect an annuity form of payment, 35% are assumed to elect a straight life annuity, 30% elect a 10-year certain and continuous annuity, 17.5% elect a 50% J&S annuity, and 17.5% elect a 100% J&S annuity. For GHC, MPO, McLean and BWH, lump sum amounts are the greater of the cash balance account and the present value of any prior plan benefit using the substitution of annuity form under IRS Regulation 1.430(d)-1(f)(4) and unisex mortality. Annuity benefits are the greater of the Actuarial Equivalent (using plan specified factors) of the cash balance account and the benefit derived from the prior plan benefit formula. For MEEI, lump sum amounts are the greater of the background benefit and the frozen final average earnings benefit plus the cash balance account using the substitution of annuity form under IRS Regulation 1.430(d)-1(f)(4) and unisex mortality. Annuity benefits are the greater of the Actuarial Equivalent (using plan specified factors) of the cash balance account plus the frozen final average benefit and the background benefit derived from the prior plan benefit formula.					

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Benefit commencement date for participants in the CDH sub-plan	
Preretirement death benefit	The later of the death of the active participant or the date the participant would have attained age 65.
Deferred vested benefit	Age 65.
Retirement benefit	Immediately upon termination of employment.
Form of payment for participants in the CDH sub-plan	All participants are assumed to receive a life annuity with 3 years certain, but in no event will a participant receive less than a refund of accumulated contributions with interest.
Benefit commencement date for former participants in the UH sub-plan	
Preretirement death benefit	The later of the death of the active participant or the date the participant would have attained early retirement age.
Deferred vested benefit	The later of current age or age 65.
Retirement benefit	Upon termination of employment.
Form of payment for former participants in the UH sub-plan	All single participants are assumed to elect 100% Life annuity. 65% of married active participants are assumed to elect Life annuity, and 35% to elect 66 2/3% Contingent annuity. 50% of married deferred participants are assumed to elect 50% Contingent annuity, and 50% to elect 66 2/3% Contingent annuity.
Covered pay	For CDH, actual rate of pay as of the census date. For former NCH participants, pay does not apply. For all others, actual pensionable earnings for the 2021 plan year with increases at the assumed salary scale rate to determine valuation pay.
Cash flow	
Timing of benefit payments	Annuity payments are payable monthly at the beginning of the month and lump sum payments are payable on date of decrement.

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Methods – Cost and Funded Position	
Valuation date	First day of plan year, October 1, 2022
Funding target	Present value of accrued benefits as required by regulations under IRC §430.
Target normal cost	Present value of benefits expected to accrue during the plan year plus plan-related expenses expected to be paid from plan assets during the plan year as required by regulations under IRC §430.
Decrement Timing	The approach used is called rounded middle of year (rounded MOY) decrement timing. Most events are assumed to occur at the middle of year during which the eligibility condition will be met or the start/end date will occur. For death and disability decrements, the rate applied is based on the participant's rounded age (nearest integer age) at the beginning of the year, to align with the methodology generally used to create those rate tables. For retirement and withdrawal decrements: the age is generally the participant's rounded age at the middle of the year.
Actuarial value of assets [for determining minimum required contributions]	Average of the fair market value of assets on the valuation date and 12 and 24 months preceding the valuation date, adjusted for contributions, benefits, administrative expenses and expected earnings (with such expected earnings limited as described in IRS Notice 2009-22). The average asset value must be within 10% of market value, including discounted contributions receivable (discounted using the effective interest rate for the prior plan year.) The method of computing the actuarial value of assets complies with rules governing the calculation of such values under the Pension Protection Act of 2006 (PPA). These rules produce smoothed values that reflect the underlying market value of plan assets but fluctuate less than the market value. As a result, the actuarial value of assets will be lower than the market value in some years and greater in other years. However, over the long term under PPA's smoothing rules, the method has a bias to produce an actuarial value of assets that is below the market value of assets.
Benefits Not Valued	All benefits described in the Plan Provisions section of this report were valued. Willis Towers Watson has reviewed the plan provisions with Mass

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	General Brigham and, based on that review, is not aware of any significant benefits required to be valued that were not.
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Data Sources

Willis Towers Watson used asset data supplied by the custodian, Mass General Brigham through its third party administrator, furnished participant data as of October 1, 2022. Data and other information were reviewed for reasonableness and consistency, but no audit was performed. Based on discussions with the plan sponsor, assumptions or estimates were made when data were not available. In consultation with Mass General Brigham assumptions were made for missing or apparently inconsistent data elements as described in our Round 1 Data Action Plan dated December 14, 2022 and Round 2 Data Action Plan dated February 3, 2023.

We are not aware of any errors or omissions in the data that would have a significant effect on the results of our calculations.

Assumptions Rationale - Significant Economic Assumptions

Discount rate	The basis chosen was selected by the plan sponsor from among choices prescribed by law, all of which are based on observed market data over certain periods of time.
Cash balance interest crediting rate	For CCB, the interest credited at the end of each year based upon the beginning of year Cash Balance Account will be equal to the one-year U.S. Treasury bill rate as of the 9/30 during the calendar year plus 1.0%. It will not be less than 5.0%, nor greater than 12.0%. For MEEI cash balance pay credits earned prior to 12/31/2018, the interest credited at the end of each year based upon the beginning of year Cash Balance Account will be equal to the yield on 10-year U.S. Treasury securities in the prior November. It will not be less than 5.0%. After examining historical variability in this rate, including the increase in interest crediting expected to be caused by the minimum interest credit, we believe that the selected assumption is reasonable based on market conditions at the measurement date.
Lump sum conversion rate	Lump sum benefits for non-cash balance benefits are valued using "annuity substitution", so that the interest rates assumed are effectively the same as described above for the discount rate. We believe this approach does not significantly conflict with what would be reasonable because it reflects the interest rate sensitivity of future plan cash flows.

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Rates of increase in compensation, Social Security Wage Base and CPI	Assumed increases were chosen by the plan sponsor and they represent an estimate of future experience. We relied on the plan sponsor for this assumption, as the plan sponsor has access to pertinent information related to their business and is in a better position to set this assumption. However, we believe that the assumption chosen does not significantly conflict with what would be reasonable based on the assumed future CPI and GDP growth inherent in the other economic assumptions chosen, other than the discount rate.
Administrative expenses	Administrative expenses are estimated by determining the expected actual expenses for the coming year, and include the following: PBGC premiums Willis Towers Watson actuarial fees, Administrative fees by the Plan's third-party administrator, a charge for Mass General Brigham's Benefits Office expense related to plan operation, and all other administrative expenses (based on a three-year average of actual expenses for all other administrative expenses) We believe that this approach to setting assumed future expenses does not significantly conflict with what would be reasonable because it considers both historical and expected future changes in the level of expenses.
Assumed Return for Asset Smoothing	The assumed return of 6.11% used for asset smoothing is the third segment rate. Although we have not explicitly determined an expected return on assets, based on an analysis of the plan sponsor's investment policy we believe the rate to be above the third segment rate.
Assumptions Rationale - Significant Demographic Assumptions	
Mortality	Assumptions used for funding purposes were selected by the plan sponsor among the choices prescribed by IRS §430(h).
Termination	Termination rates are based on plan sponsor expectation for the future with periodic monitoring of observed gains and losses caused by termination patterns different than assumed. An experience study prepared in 2022 was the basis for the updated termination assumptions.

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	For the reasons discussed above, we believe the assumptions selected do not significantly conflict with what would be reasonable.
Retirement	Retirement rates are based on plan sponsor expectations for the future with periodic monitoring of observed gains and losses caused by retirement patterns different than assumed. An experience study prepared in 2022 was the basis for the updated retirement assumptions. For the reasons discussed above, we believe the assumptions selected do not significantly conflict with what would be reasonable..
Benefit commencement date for deferred benefits:	
Deferred vested benefit	Deferred vested participants' assumed commencement age is a single age intended to capture the average age at commencement. Deferred vested early commencement factors are not subsidized so that the difference between this approach and using assumed commencement rates at multiple ages is not expected to be significant. An experience study prepared in 2022 was the basis for the updated assumption. For the reasons discussed above, we believe the assumptions selected do not significantly conflict with what would be reasonable.
Form of payment	The percentages of participants assumed to elect various annuity forms and lump sums is based on observed experience modified to reflect an estimate of future experience. An experience study prepared in 2022 was the basis for the updated assumption. For the reasons discussed above, we believe the assumptions selected do not significantly conflict with what would be reasonable.
Source of Prescribed Methods	
Funding methods	The methods used for funding purposes as described in this Appendix A, including the method of determining the plan assets, are "prescribed methods set by law", as defined in the actuarial standards of practice (ASOPs). These methods are required by IRS §430, or were selected by the plan sponsor from a range of methods permitted by IRC §430.

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Changes in Assumptions and Methods	
Change in assumptions since prior valuation	The segment rates used to calculate the funding target and target normal cost were updated to the current valuation date as required by IRC§430. The mortality table used to calculate the funding target and target normal cost was updated to include one additional year of projected mortality improvement, as required by IRC §430. The assumed plan-related expenses added to the service cost were changed from \$11,050,000 for the 2021 plan year to \$11,450,000 for the 2022 plan year based on expected changes to underlying components. The MEEI annuity conversion bases interest rate was changed from 2.00% to 4.00%, due to changes in market conditions since the prior measurement date. The CDH Employee contribution interest rate was changed from 2.00% to 4.00%, due to changes in market conditions since the prior measurement date. Retirement and termination decrements have changed to reflect experience observed in the 2022 experience study. CCB, BWH, and MEEI sub-plans form of payment and benefit commencement dates have changed to reflect experience observed in the 2022 experience study. Spouse age difference has changed from wives three years younger than husbands to beneficiaries are the same age as participants to reflect experience observed in the 2022 experience study.
Change in methods since prior valuation	None.

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Withdrawal from Service Tables Exhibit A							
Employees other than BWH and NCH - percentage leaving during the year:							
Age	Length of Service						
	<u>≤2</u>	<u>2-3</u>	<u>4</u>	<u>5</u>	<u>6-7</u>	<u>8-9</u>	<u>10+</u>
20-24	50%	32%	21%	14%	13%	8%	15%
25-29	33%	24%	19%	14%	13%	8%	15%
30-34	27%	18%	17%	14%	10%	8%	9%
35-39	24%	16%	14%	14%	10%	10%	7%
40-44	24%	13%	13%	10%	10%	10%	7%
45-49	24%	13%	13%	10%	10%	9%	7%
50-54	22%	13%	10%	10%	10%	7%	5%
55-59	20%	12%	N/A	N/A	N/A	N/A	N/A
60-64	20%	12%	N/A	N/A	N/A	N/A	N/A
Employees of BWH - percentage leaving during the year:							
Age	Length of Service						
	<u>≤2</u>	<u>2-3</u>	<u>4</u>	<u>5</u>	<u>6-7</u>	<u>8-9</u>	<u>10+</u>
20-24	43%	34%	15%	15%	11%	10%	5%
25-29	32%	25%	15%	15%	11%	10%	5%
30-34	23%	17%	14%	14%	11%	10%	5%
35-39	19%	14%	14%	11%	10%	8%	5%
40-44	16%	12%	8%	11%	10%	7%	4%
45-49	15%	11%	7%	8%	8%	5%	3%
50-54	15%	10%	7%	7%	6%	5%	3%
55-59	15%	10%	N/A	N/A	N/A	N/A	N/A
60-64	9%	7%	N/A	N/A	N/A	N/A	N/A

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Schedule SB – Statement by Enrolled Actuary

Plan Sponsor	Mass General Brigham Incorporated
EIN/PN	04-3230035/ 499
Plan Name	Consolidated Cash Balance Program of Mass General Brigham and Member Organizations
Valuation Date	October 1, 2022
Enrolled Actuary	Jennifer S. Collier, A.S.A., E.A
Enrollment Number	23-05680

The actuarial assumptions that are not mandated by IRC § 430 and regulations, represent the enrolled actuary's best estimate of anticipated experience under the plan, subject to the following conditions:

The actuarial valuation, on which the information in this Schedule SB is based, has been prepared in reliance upon the employee and financial data furnished by the plan administrator and the trustee. The enrolled actuary has not made a rigorous check of the accuracy of this information but has accepted it after reviewing it and concluding it is reasonable in relation to similar information furnished in previous years. The amounts of contributions and dates paid shown in Item 18 of Schedule SB were listed in reliance on information provided by the plan administrator and/or trustee.

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
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For calendar plan year 2022 or fiscal plan year beginning 10/01/2022 and ending 09/30/2023

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan Consolidated Cash Balance Program of Mass General Brigham and Member Organizations	B Three-digit plan number (PN) ▶ 499
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF Mass General Brigham Incorporated	D Employer Identification Number (EIN) 04-3230035
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I Basic Information			
1 Enter the valuation date: Month <u>10</u> Day <u>01</u> Year <u>2022</u>			
2 Assets:			
a Market value		2a	8,570,584,733
b Actuarial value		2b	9,393,859,954
3 Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment.....	10,279	1,937,324,722	1,937,324,722
b For terminated vested participants.....	22,565	1,021,362,825	1,021,362,825
c For active participants	55,559	4,318,341,820	4,385,767,773
d Total.....	88,403	7,277,029,367	7,344,455,320
4 If the plan is in at-risk status, check the box and complete lines (a) and (b). ☐			
a Funding target disregarding prescribed at-risk assumptions		4a	
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor.....		4b	
5 Effective interest rate	5	5.55%	
6 Target normal cost			
a Present value of current plan year accruals.....	6a	316,067,377	
b Expected plan-related expenses	6b	11,450,000	
c Total (line 6a + line 6b)	6c	327,517,377	

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE	Jennifer S. Collier 	5/14/2024
Signature of actuary		Date
Jennifer S Collier, A.S.A., E.A.		2305680
Type or print name of actuary		Most recent enrollment number
Willis Towers Watson US LLC		617-638-3700
Firm name		Telephone number (including area code)
75 Arlington Street Floor 2 Boston MA 02116		
Address of the firm		

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

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

Schedule SB (Form 5500) 2022
v. 220413

Part II		Beginning of Year Carryover and Prefunding Balances	
		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	1,438,474,188
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	0	1,438,474,188
10	Interest on line 9 using prior year's actual return of <u>-14.70</u> %	0	-211,455,706
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		295,524,579
	b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.68</u> %		16,785,796
	b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
	c Total available at beginning of current plan year to add to prefunding balance		312,310,375
	d Portion of (c) to be added to prefunding balance		312,310,375
12	Other reductions in balances due to elections or deemed elections	0	600,000,000
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	939,328,857

Part III		Funding Percentages	
14	Funding target attainment percentage	14	115.11 %
15	Adjusted funding target attainment percentage	15	127.90 %
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	113.26 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV		Contributions and Liquidity Shortfalls			
18 Contributions made to the plan for the plan year by employer(s) and employees:					
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
10/24/2022	12,753,000		05/22/2023	11,158,500	
10/28/2022		7,729	05/26/2023		7,464
11/22/2022	12,753,000		06/22/2023	11,158,500	
11/25/2022		7,862	06/30/2023		9,631
12/22/2022	12,753,000		07/28/2023		7,264
12/30/2022		9,238	08/25/2023		6,926
01/23/2023	11,158,500		09/29/2023		9,007
01/27/2023		8,007			
02/22/2023	11,158,500				
02/24/2023		7,273			
03/22/2023	11,158,500				
03/31/2023		9,311			
04/24/2023	11,158,500				
04/28/2023		7,267			
Totals ▶			18(b)	105,210,000	18(c) 96,979

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:			
a Contributions allocated toward unpaid minimum required contributions from prior years	19a	0	
b Contributions made to avoid restrictions adjusted to valuation date	19b	0	
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	103,069,222	
20 Quarterly contributions and liquidity shortfalls:			
a Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No			
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No			
c If line 20a is "Yes," see instructions and complete the following table as applicable:			
Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 4.75 %	2nd segment: 5.18 %	3rd segment: 5.92 %	☐ N/A, full yield curve used
b Applicable month (enter code)				21b 4
22 Weighted average retirement age				22 64
23 Mortality table(s) (see instructions)	☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute			

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.....	☒ Yes ☐ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.....	☐ Yes ☒ No
26 Demographic and benefit information	
a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.	☒ Yes ☐ No
b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ...	☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29).....	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6c)	31a	327,517,377	
b Excess assets, if applicable, but not greater than line 31a	31b	327,517,377	
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment	0	0	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)....	34	0	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	0	0
36 Additional cash requirement (line 34 minus line 35)	36	0	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	103,069,222	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	103,069,222	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contributions for all years	40	0	

Part IX Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)

41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. ☐ 2019 ☐ 2020 ☐ 2021

SCHEDULE SB ATTACHMENTS

Schedule SB – Statement by Enrolled Actuary

Plan Sponsor	Mass General Brigham Incorporated
EIN/PN	04-3230035/ 499
Plan Name	Consolidated Cash Balance Program of Mass General Brigham and Member Organizations
Valuation Date	October 1, 2022
Enrolled Actuary	Jennifer S. Collier, A.S.A., E.A
Enrollment Number	23-05680

The actuarial assumptions that are not mandated by IRC § 430 and regulations, represent the enrolled actuary's best estimate of anticipated experience under the plan, subject to the following conditions:

The actuarial valuation, on which the information in this Schedule SB is based, has been prepared in reliance upon the employee and financial data furnished by the plan administrator and the trustee. The enrolled actuary has not made a rigorous check of the accuracy of this information but has accepted it after reviewing it and concluding it is reasonable in relation to similar information furnished in previous years. The amounts of contributions and dates paid shown in Item 18 of Schedule SB were listed in reliance on information provided by the plan administrator and/or trustee.

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Schedule SB, Line 22 Description of Weighted Average Retirement Age as of October 1, 2022

For each active participant an expected retirement age was calculated, weighted in proportion to the probability that the individual would remain an active participant to each age and then retire at that age. The plan's weighted average retirement age of 64 is the arithmetic average of the expected retirement ages of all participants in the Consolidated Cash Balance Program of Partners HealthCare and Member Organizations based on the hypothetical method. Note that participants in the former plans in table II have a lower weighted average retirement age.

The rates of retirement at each age are as follows:

Table I

For Consolidated Cash Balance Program of Partners HealthCare and Member Organizations (pre-merger), former Brigham and Women's Hospital Retirement Plan, and former Retirement Plan for Employees of North Shore Medical Center – Union Hospital participants:

(1) Age	(2) Exposure	(3) Retirement Rate Decrement	(4) Number Retired at Age (2)*(3)	(5) (1)*(4)
55	1,000	5.0%	50	2,750
56	950	5.0%	48	2,660
57	903	5.0%	45	2,572
58	857	5.0%	43	2,486
59	815	5.0%	41	2,403
60	774	7.5%	58	3,482
61	716	7.5%	54	3,275
62	662	7.5%	50	3,079
63	612	10%	61	3,858
64	551	10%	55	3,527
65	496	15%	74	4,837
66	422	20%	84	5,566
67	337	20%	67	4,520
68	270	20%	54	3,670
69	216	20%	43	2,979
70	173	20%	35	2,418
71	138	20%	28	1,962
72	111	20%	22	1,592

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73	88	20%	18	1,291
74	71	20%	14	1,047
75	57	100%	57	4,244

64,217

$$64,217/1000 = 64.217$$

Table II

For former Pension Plan for Employees of the Cooley Dickinson HealthCare Corporation participants:

(1) Age	(2) Exposure	(3) Retirement Rate Decrement	(4) Number Retired at Age (2)*(3)	(5) (1)*(4)
62	1,000	50%	500	31,000
63	500	50%	250	15,750
64	250	50%	125	8,000
65	125	100%	125	8,125

62,875

$$62,875/1000 = 62.875$$

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Schedule SB, Part V Statement of Actuarial Assumptions/Methods

Actuarial Assumptions and Methods									
Economic Assumptions									
Interest Rate Basis:									
Applicable Month						June 2022			
Interest Rate Basis						3-Segment Rates			
Interest Rates:				Reflecting Stabilization		Not Reflecting Stabilization			
First Segment Rate				4.75%		1.02%			
Second Segment Rate				5.18%		2.80%			
Third Segment Rate				5.92%		3.38%			
Effective Interest Rate				5.55%		3.12%			
Annual rates of increase ¹									
Compensation:			Rates of % increase varying by age						
- Representative rates			Age	CCB	MGH Prof Staff	MGH/ BWH Nurses ²	BWH	BWH Prof Staff	CDH
			25	5.85%	6.85%	5.00%	7.00%	8.00%	3.50%
			30	5.35%	6.35%	5.00%	6.00%	7.00%	3.50%
			40	4.45%	5.45%	5.00%	4.50%	5.50%	3.50%
			50	3.45%	4.45%	5.00%	3.50%	4.50%	3.50%
			60	3.00%	4.00%	5.00%	3.00%	4.00%	3.50%
- Weighted Average				3.45%	4.45%	5.00%	3.48%	4.48%	3.50%
- FY22 one-time additional increase				0.50%	N/A	1.50%	2.50%	N/A	0.50%

¹ Annual rates of increase are not applicable to former NCH participants since the plan is frozen

² Salary scale shown used for first 18 years of service, which then changes to the salary scale under the respective group.

Plan Name: Consolidated Cash Balance Program of Mass General Brigham and Member Organizations

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Plan Sponsor: Mass General Brigham Incorporated

Valuation Date: October 1, 2022

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Future Social Security wage bases ³	3.00%
Statutory limits on compensation and benefits	N/A
Cash Balance interest crediting rate	5.25%; N/A for CDH
CDH Employee contribution interest rate	4.00%
Plan-related Expenses	\$ 11,450,000
As permitted by law, rates reflecting stabilization are used to determine the funding target and target normal cost, and thus the minimum required contribution under IRC §430 for the plan. Because these assumptions are subject to a corridor based on average interest rates over a 25-year period, they may differ from (and currently are higher than) current market interest rates, and may be inconsistent with other economic assumptions used in the valuation.	
Rates not reflecting stabilization are used to determine PBGC variable rate premiums if the alternative method is used, and are used to determine the PBGC FTAP and the PBGC 4010 FS.	
Demographic and Other Assumptions	
Inclusion date	The valuation date coincident with or next following the date on which the employee becomes a participant.
New or rehired employees	It was assumed there will be no new or rehired employees after the census date.
Mortality – Healthy and Disabled	Separate rates for non-annuitants (based on RP-2014 “Employees” table without collar or amount adjustments, adjusted backward to 2006 with MP-2014, and then projected forward with a static projection as specified in the regulations under §1.430(h)(3)-1 using Scale MP-2020) and annuitants (based on RP-2014 “Healthy Annuitants” table without collar or amount adjustments, adjusted backward to 2006 with MP-2014, and then projected forward with a static projection as specified in the regulations under §1.430(h)(3)-1 using Scale MP-2020).
Termination (not due to retirement) rates	Rates as set forth in Exhibit A. None are assumed for former NCH participants.

³ Applicable for CCB and CDH

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Disability	For CDH, 1985 Pension Disability Table Class 1 for males & females. None assumed for all other entities.																
Retirement	100% at age 65 or present age, if older, for former NCH participants. For CDH, age 65. However, 50% of participants with 25 years of service before age 65 are assumed to retire at the later of the completion of 25 years of service and attainment of age 62. For all other participants, rates varying by age, average age 64 Representative rates: <table> <tr> <th colspan="2">Percentage assumed to retire during the year</th></tr> <tr> <th><u>Age</u></th><th><u>Rate</u></th></tr> <tr> <td>55-59</td><td>5.00%</td></tr> <tr> <td>60-62</td><td>7.50%</td></tr> <tr> <td>63-64</td><td>10.00%</td></tr> <tr> <td>65</td><td>15.00%</td></tr> <tr> <td>66-74</td><td>20.00%</td></tr> <tr> <td>75+</td><td>100.00%</td></tr> </table>	Percentage assumed to retire during the year		<u>Age</u>	<u>Rate</u>	55-59	5.00%	60-62	7.50%	63-64	10.00%	65	15.00%	66-74	20.00%	75+	100.00%
Percentage assumed to retire during the year																	
<u>Age</u>	<u>Rate</u>																
55-59	5.00%																
60-62	7.50%																
63-64	10.00%																
65	15.00%																
66-74	20.00%																
75+	100.00%																
Percent Married	80% for CDH 70% for UH N/A for all other participants																
Beneficiary Age	Beneficiaries are assumed to be the same age as the participant.																

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Benefit commencement date and form of payment for participants in the CCB and BWH, and MEEI sub-plans	Participant Status	Decrement	Form of Payment	Election Percent	Commencement Date
	Active	Death	Lump Sum	100%	Paid on death
	Active	Termination*	Lump Sum	44%	Age 65 or date of termination, if later
	Active	Termination*	Lump sum	12%	Date of termination
	Active	Termination*	Annuity**	44%	Age 65 or date of termination, if later
	Active	Retirement*	Lump sum	20%	Date of retirement
	Active	Retirement*	Annuity**	80%	Date of retirement
	Deferred Vested	Retirement*	Lump sum	50%	Age 65 or date of valuation, if later
	Deferred Vested	Retirement*	Annuity**	50%	Age 65 or date of valuation, if later
* For former NCH participants, 100% of actives are assumed to elect a 50% contingent annuity at age 55 or date of termination if later. For Deferred Vested participants who only have an annuity option (no cash balance account), the benefit is assumed to be payable as a single life annuity at age 65, unless an optional form was provided to us on the client data. **Of those who elect an annuity form of payment, 35% are assumed to elect a straight life annuity, 30% elect a 10-year certain and continuous annuity, 17.5% elect a 50% J&S annuity, and 17.5% elect a 100% J&S annuity. For GHC, MPO, McLean and BWH, lump sum amounts are the greater of the cash balance account and the present value of any prior plan benefit using the substitution of annuity form under IRS Regulation 1.430(d)-1(f)(4) and unisex mortality. Annuity benefits are the greater of the Actuarial Equivalent (using plan specified factors) of the cash balance account and the benefit derived from the prior plan benefit formula. For MEEI, lump sum amounts are the greater of the background benefit and the frozen final average earnings benefit plus the cash balance account using the substitution of annuity form under IRS Regulation 1.430(d)-1(f)(4) and unisex mortality. Annuity benefits are the greater of the Actuarial Equivalent (using plan specified factors) of the cash balance account plus the frozen final average benefit and the background benefit derived from the prior plan benefit formula.					

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Benefit commencement date for participants in the CDH sub-plan	
Preretirement death benefit	The later of the death of the active participant or the date the participant would have attained age 65.
Deferred vested benefit	Age 65.
Retirement benefit	Immediately upon termination of employment.
Form of payment for participants in the CDH sub-plan	All participants are assumed to receive a life annuity with 3 years certain, but in no event will a participant receive less than a refund of accumulated contributions with interest.
Benefit commencement date for former participants in the UH sub-plan	
Preretirement death benefit	The later of the death of the active participant or the date the participant would have attained early retirement age.
Deferred vested benefit	The later of current age or age 65.
Retirement benefit	Upon termination of employment.
Form of payment for former participants in the UH sub-plan	All single participants are assumed to elect 100% Life annuity. 65% of married active participants are assumed to elect Life annuity, and 35% to elect 66 2/3% Contingent annuity. 50% of married deferred participants are assumed to elect 50% Contingent annuity, and 50% to elect 66 2/3% Contingent annuity.
Covered pay	For CDH, actual rate of pay as of the census date. For former NCH participants, pay does not apply. For all others, actual pensionable earnings for the 2021 plan year with increases at the assumed salary scale rate to determine valuation pay.
Cash flow	
Timing of benefit payments	Annuity payments are payable monthly at the beginning of the month and lump sum payments are payable on date of decrement.

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Methods – Cost and Funded Position	
Valuation date	First day of plan year, October 1, 2022
Funding target	Present value of accrued benefits as required by regulations under IRC §430.
Target normal cost	Present value of benefits expected to accrue during the plan year plus plan-related expenses expected to be paid from plan assets during the plan year as required by regulations under IRC §430.
Decrement Timing	The approach used is called rounded middle of year (rounded MOY) decrement timing. Most events are assumed to occur at the middle of year during which the eligibility condition will be met or the start/end date will occur. For death and disability decrements, the rate applied is based on the participant's rounded age (nearest integer age) at the beginning of the year, to align with the methodology generally used to create those rate tables. For retirement and withdrawal decrements: the age is generally the participant's rounded age at the middle of the year.
Actuarial value of assets [for determining minimum required contributions]	Average of the fair market value of assets on the valuation date and 12 and 24 months preceding the valuation date, adjusted for contributions, benefits, administrative expenses and expected earnings (with such expected earnings limited as described in IRS Notice 2009-22). The average asset value must be within 10% of market value, including discounted contributions receivable (discounted using the effective interest rate for the prior plan year.) The method of computing the actuarial value of assets complies with rules governing the calculation of such values under the Pension Protection Act of 2006 (PPA). These rules produce smoothed values that reflect the underlying market value of plan assets but fluctuate less than the market value. As a result, the actuarial value of assets will be lower than the market value in some years and greater in other years. However, over the long term under PPA's smoothing rules, the method has a bias to produce an actuarial value of assets that is below the market value of assets.
Benefits Not Valued	All benefits described in the Plan Provisions section of this report were valued. Willis Towers Watson has reviewed the plan provisions with Mass

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	General Brigham and, based on that review, is not aware of any significant benefits required to be valued that were not.
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Data Sources

Willis Towers Watson used asset data supplied by the custodian, Mass General Brigham through its third party administrator, furnished participant data as of October 1, 2022. Data and other information were reviewed for reasonableness and consistency, but no audit was performed. Based on discussions with the plan sponsor, assumptions or estimates were made when data were not available. In consultation with Mass General Brigham assumptions were made for missing or apparently inconsistent data elements as described in our Round 1 Data Action Plan dated December 14, 2022 and Round 2 Data Action Plan dated February 3, 2023.

We are not aware of any errors or omissions in the data that would have a significant effect on the results of our calculations.

Assumptions Rationale - Significant Economic Assumptions

Discount rate	The basis chosen was selected by the plan sponsor from among choices prescribed by law, all of which are based on observed market data over certain periods of time.
Cash balance interest crediting rate	For CCB, the interest credited at the end of each year based upon the beginning of year Cash Balance Account will be equal to the one-year U.S. Treasury bill rate as of the 9/30 during the calendar year plus 1.0%. It will not be less than 5.0%, nor greater than 12.0%. For MEEI cash balance pay credits earned prior to 12/31/2018, the interest credited at the end of each year based upon the beginning of year Cash Balance Account will be equal to the yield on 10-year U.S. Treasury securities in the prior November. It will not be less than 5.0%. After examining historical variability in this rate, including the increase in interest crediting expected to be caused by the minimum interest credit, we believe that the selected assumption is reasonable based on market conditions at the measurement date.
Lump sum conversion rate	Lump sum benefits for non-cash balance benefits are valued using "annuity substitution", so that the interest rates assumed are effectively the same as described above for the discount rate. We believe this approach does not significantly conflict with what would be reasonable because it reflects the interest rate sensitivity of future plan cash flows.

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Rates of increase in compensation, Social Security Wage Base and CPI	Assumed increases were chosen by the plan sponsor and they represent an estimate of future experience. We relied on the plan sponsor for this assumption, as the plan sponsor has access to pertinent information related to their business and is in a better position to set this assumption. However, we believe that the assumption chosen does not significantly conflict with what would be reasonable based on the assumed future CPI and GDP growth inherent in the other economic assumptions chosen, other than the discount rate.
Administrative expenses	Administrative expenses are estimated by determining the expected actual expenses for the coming year, and include the following: PBGC premiums Willis Towers Watson actuarial fees, Administrative fees by the Plan's third-party administrator, a charge for Mass General Brigham's Benefits Office expense related to plan operation, and all other administrative expenses (based on a three-year average of actual expenses for all other administrative expenses) We believe that this approach to setting assumed future expenses does not significantly conflict with what would be reasonable because it considers both historical and expected future changes in the level of expenses.
Assumed Return for Asset Smoothing	The assumed return of 6.11% used for asset smoothing is the third segment rate. Although we have not explicitly determined an expected return on assets, based on an analysis of the plan sponsor's investment policy we believe the rate to be above the third segment rate.
Assumptions Rationale - Significant Demographic Assumptions	
Mortality	Assumptions used for funding purposes were selected by the plan sponsor among the choices prescribed by IRS §430(h).
Termination	Termination rates are based on plan sponsor expectation for the future with periodic monitoring of observed gains and losses caused by termination patterns different than assumed. An experience study prepared in 2022 was the basis for the updated termination assumptions.

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	For the reasons discussed above, we believe the assumptions selected do not significantly conflict with what would be reasonable.
Retirement	Retirement rates are based on plan sponsor expectations for the future with periodic monitoring of observed gains and losses caused by retirement patterns different than assumed. An experience study prepared in 2022 was the basis for the updated retirement assumptions. For the reasons discussed above, we believe the assumptions selected do not significantly conflict with what would be reasonable..
Benefit commencement date for deferred benefits:	
Deferred vested benefit	Deferred vested participants' assumed commencement age is a single age intended to capture the average age at commencement. Deferred vested early commencement factors are not subsidized so that the difference between this approach and using assumed commencement rates at multiple ages is not expected to be significant. An experience study prepared in 2022 was the basis for the updated assumption. For the reasons discussed above, we believe the assumptions selected do not significantly conflict with what would be reasonable.
Form of payment	The percentages of participants assumed to elect various annuity forms and lump sums is based on observed experience modified to reflect an estimate of future experience. An experience study prepared in 2022 was the basis for the updated assumption. For the reasons discussed above, we believe the assumptions selected do not significantly conflict with what would be reasonable.
Source of Prescribed Methods	
Funding methods	The methods used for funding purposes as described in this Appendix A, including the method of determining the plan assets, are "prescribed methods set by law", as defined in the actuarial standards of practice (ASOPs). These methods are required by IRS §430, or were selected by the plan sponsor from a range of methods permitted by IRC §430.

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Changes in Assumptions and Methods	
Change in assumptions since prior valuation	The segment rates used to calculate the funding target and target normal cost were updated to the current valuation date as required by IRC§430. The mortality table used to calculate the funding target and target normal cost was updated to include one additional year of projected mortality improvement, as required by IRC §430. The assumed plan-related expenses added to the service cost were changed from \$11,050,000 for the 2021 plan year to \$11,450,000 for the 2022 plan year based on expected changes to underlying components. The MEEI annuity conversion bases interest rate was changed from 2.00% to 4.00%, due to changes in market conditions since the prior measurement date. The CDH Employee contribution interest rate was changed from 2.00% to 4.00%, due to changes in market conditions since the prior measurement date. Retirement and termination decrements have changed to reflect experience observed in the 2022 experience study. CCB, BWH, and MEEI sub-plans form of payment and benefit commencement dates have changed to reflect experience observed in the 2022 experience study. Spouse age difference has changed from wives three years younger than husbands to beneficiaries are the same age as participants to reflect experience observed in the 2022 experience study.
Change in methods since prior valuation	None.

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Withdrawal from Service Tables Exhibit A							
Employees other than BWH and NCH - percentage leaving during the year:							
Age	<u>Length of Service</u>						
	<u><2</u>	<u>2-3</u>	<u>4</u>	<u>5</u>	<u>6-7</u>	<u>8-9</u>	<u>10+</u>
20-24	50%	32%	21%	14%	13%	8%	15%
25-29	33%	24%	19%	14%	13%	8%	15%
30-34	27%	18%	17%	14%	10%	8%	9%
35-39	24%	16%	14%	14%	10%	10%	7%
40-44	24%	13%	13%	10%	10%	10%	7%
45-49	24%	13%	13%	10%	10%	9%	7%
50-54	22%	13%	10%	10%	10%	7%	5%
55-59	20%	12%	N/A	N/A	N/A	N/A	N/A
60-64	20%	12%	N/A	N/A	N/A	N/A	N/A
Employees of BWH - percentage leaving during the year:							
Age	<u>Length of Service</u>						
	<u><2</u>	<u>2-3</u>	<u>4</u>	<u>5</u>	<u>6-7</u>	<u>8-9</u>	<u>10+</u>
20-24	43%	34%	15%	15%	11%	10%	5%
25-29	32%	25%	15%	15%	11%	10%	5%
30-34	23%	17%	14%	14%	11%	10%	5%
35-39	19%	14%	14%	11%	10%	8%	5%
40-44	16%	12%	8%	11%	10%	7%	4%
45-49	15%	11%	7%	8%	8%	5%	3%
50-54	15%	10%	7%	7%	6%	5%	3%
55-59	15%	10%	N/A	N/A	N/A	N/A	N/A
60-64	9%	7%	N/A	N/A	N/A	N/A	N/A

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Schedule SB, Line 24 Change in Actuarial Assumptions

- The assumed plan-related expenses added to the service cost were changed from \$11,050,000 for the 2021 plan year to \$11,450,000 for the 2022 plan year based on expected changes to underlying components.
- The MEEI annuity conversion bases interest rate was changed from 2.00% to 4.00%, due to changes in market conditions since the prior measurement date.
- The CDH Employee contribution interest rate was changed from 2.00% to 4.00%, due to changes in market conditions since the prior measurement date
- Retirement and termination decrements have changed to reflect experience observed in the 2022 experience study.
- CCB, BWH, and MEEI sub-plans form of payment and benefit commencement dates have changed to reflect experience observed in the 2022 experience study.
- Spouse age difference has changed from wives three years younger than husbands to beneficiaries are the same age as participants to reflect experience observed in the 2022 experience study.

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Schedule SB, Part V Summary of Plan Provisions

Plan Provisions for CCB participants

Plan Provisions	
Status of Plan	Active and open to eligible participants.
Covered Employees	All employees who were included in the prior plan on September 30, 1989 will continue to be included on October 1, 1989. Eligible employees include any employee of: • The Massachusetts General Hospital • The General Hospital Corporation (GHC) • The McLean Hospital Corporation (MCL) • The MGH Professional Services Corporation (MPO) • The MGH Institute of Health Professions, Inc. • The MGH Health Services Corporation • Mass General Brigham – Enterprise Services (MGB) (effective 7/1/1996) • Mass General Brigham HomeCare, Inc. (MGBHC) (effective 7/1/1999 for the Affiliated Community Visiting Nurse Association, 5/1/2000 for Spaulding Home Health and 7/1/2000 for the North End Community Health Committee) • Spaulding Rehabilitation, including: • Spaulding Rehabilitation Hospital Boston • Spaulding Hospital for Continuing Medical Care Cambridge • Spaulding Rehabilitation Hospital North Shore (SNS) (effective 1/1/2017) • Spaulding Rehabilitation Hospital Cape Cod (SCC) (effective 1/1/2017) • Mass General Brigham Health Plan, formerly AllWays Health Partners or Neighborhood Health Plan (NHP) (effective 9/1/13)

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	• North Shore Medical Center (NSMC) (effective 1/1/2017) • Newton Wellesley Hospital (NWH) (effective 1/1/2017) • Martha's Vineyard Hospital (MVH) (effective 1/1/2017 for non-union employees and 7/1/2017 for MNA employees) • Mass General Brigham Community Physicians (MGBCP) (effective 1/1/2017) • MGB Senior Executives (effective 1/1/2017) • Brigham and Women's Hospital (BWH) • Brigham and Women's Physician Organization (BWPO) (effective 1/1/2017) • Faulkner Hospital (excluding nurses) (BWFH) (effective 1/1/2017) • Faulkner Hospital nurses (BWFH) (effective 10/1/2017) • Massachusetts Eye and Ear Infirmary (effective 1/1/2019) • Wentworth Douglas Hospital (WDH) (effective 1/1/2019) • Hopedale Cardiovascular Associates (HCA) (effective 1/1/2022) • Garrison Women's Health (GWH) (effective 5/2/2022) • Commonwealth Radiology Associates (CRA) (effective 10/1/2022) • MGPO and MEEA Physicians* *New hires from MGPO were eligible effective 1/1/2016; new hires from MEEA were eligible effective 1/1/2020; and all existing employees under age 50 are eligible at 1/1/2021. Interns, residents, and fellows are excluded from the plan. Effective January 1, 1993, an individual who actively participates or is eligible to actively participate in the Massachusetts General Hospital Academic Annuity Plan or the Spaulding Rehabilitation Hospital Staff Physician Annuity Plan shall not be an eligible employee under this Plan except for individuals employed by the McLean Hospital Corporation. All employees are eligible upon attaining age 21 and completing 1,000 hours of service in the first year of employment or any subsequent plan year.
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Participation Date	Date of becoming a covered employee.
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Definitions	
Compensation	For BWH, BWPO, and BWFH employees: Compensation means the W-2 earnings plus any amounts contributed by the Hospital through salary reduction for 403(b) annuities and any pre-tax contributions made to a flexible benefits program. Effective January 1, 2017, compensation used in calculating pay credits for all participants other than members of the BWH nurses shall be the basic regular salary paid to a participant during the calendar year, including payments for accrued time off, shift differentials, and salary deferrals to a tax sheltered annuity, limited to the amount permitted under Section 401(a)(17) of the Code. For all other employees: The basic regular salary paid to a Member during the calendar year, including payments for accrued time off, shift differentials, and salary deferrals to a tax-sheltered annuity, limited to the amount permitted under Section 401(a)(17) of the Code.
Final Average Monthly Compensation	Average of a Member's compensation (base salary for 2,080 hours) over 60 consecutive months during his last 120 months while an active member which produces the highest average.
Normal Retirement Date (NRD)	For BWH, BWPO and BWFH employees and former participants in the UH sub-plan: First of the month coinciding with or next following the attainment of age 65. For former participants in MEEI sub-plan: Later of the attainment of age 65 and completion of 5 years of service. For all other employees: First of the month coincident or next following age 65 and the earlier of three years of vesting service and fifth anniversary of plan participation.
Hours of Service	Periods for which an employee is directly or indirectly paid, and periods of authorized unpaid leave of absence.
Vesting Service	Continuous service prior to January 1, 1976, plus one year of service after January 1, 1976 for each calendar year in which the member has at least 1,000 hours of service.

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Benefit Service	For BWH and BWPO employees: Benefit Service is based on calendar years in which a participant is paid for at least 1,000 hours. A full year is credited for 2,080 hours in a calendar year and fractional years are credited if the participant has less than 2,080 hours but at least 1,000 hours in a calendar year. For all other employees: Before January 1, 1976 – Continuous service with pro rata reduction for service less than 40 hours per week. After January 1, 1976 One year of service for each calendar year of membership in which the member has 2,080 hours of service; plus a pro rata portion of a year of service for each calendar year in which a member has at least 1,000 hours, or in which he leaves the plan or re-enters the plan. As of October 1, 1985, employees who had entered the plan at age 25 were credited with service as the plan had allowed membership to commence at age 21 with one year of service.
Opening Balance Account	For BWH and BWPO employees: The Opening Balance credit of any participant in the plan as of January 1, 1999 for those not covered by a collective bargaining agreement with the MNA or as of January 1, 2001 for those covered by such an agreement is equal to the greater of the cash balance account calculated as though the plan had always been in effect and the present value of the participant's accrued benefit at that date. For all other employees: The single sum actuarial equivalent of the accrued benefit determined under the prior plan as of December 31, 1989 (December 31, 1990 for Spaulding Rehabilitation Hospital members who are not staff physicians) based on the current plan's actuarial equivalence definition. Prior Plan means either the Massachusetts General Hospital Pension Plan or Spaulding Rehabilitation Hospital Pension Plan.

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Cash Balance Credit	For all participants prior to 2017 (2016 for GHC/MPO) and for Prior plan Participants effective January 1, 2017 (January 1, 2016 for GHC/MPO): For each calendar year on or after January 1, 1990 (January 1, 1991 for Spaulding Rehab Hospital members) each member who completes 1,000 hours of service shall receive a Cash Balance Credit equal to Compensation multiplied by the percentage based on the following schedule:			
	Sum of Age Plus Years <u>of Vesting</u> <u>Service</u>	Spaulding* <u>Prior plan</u>	PHC** <u>Prior plan</u>	GHC, MPO and MCL*** <u>Prior plan</u>
	Less than 30	3%	1.5%	5%
	30-39	4	2.0	6
	40-44	5	2.5	7
	45-49	5	3.0	8
	50-54	6	3.5	9
	55-59	7	4.0	10
	60-64	8	4.5	11
	65-69	9	5.0	12
	70-74	10	5.5	13
	75-79	11	6.0	14
	80 or more	12	6.0	15
	Each member shall receive an additional credit equal to 0.6 percent of Compensation in excess of the greater of \$10,000 or one-half of the Covered Compensation amount of an individual attaining Social Security Retirement Age in the calendar year.			
	* Anyone in PHC Prior plan (HomeCare employees who became cash balance plan members before July 1, 2000), Spaulding or Spaulding Cambridge who is 55 years old and has 10 years of service on 1/1/2017 and is actively employed. ** Anyone in Boston Center and North End or those PHC non-prior plan who is 55 years old and has 10 years of service on 1/1/2017 and is actively employed. *** For GHC and MPO, all hired before 1/1/2016; for MCL, anyone with age plus service greater than or equal to 65 points on 1/1/2017 and is actively employed.			

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	A \$2,500 minimum annual cash balance accrual is applicable for employees of the Massachusetts General Hospital or McLean Hospital effective December 31, 2010. Participants of GHC who are eligible for the prior plan cash balance pay credit schedule received an increased minimum pay credit for calendar years 2017 through 2019 (\$5,500 for 2017, \$6,000 for 2018, and \$5,500 for 2019).				
	All Other Participants				
	For each calendar year on or after January 1, 2017 each member who completes 1,000 hours of service shall receive a Cash Balance Credit equal to Compensation multiplied by the percentage based on the following schedule:				
	Sum of Age Plus Vesting Service	Percentage of Compensation			
		BWH Nurses	AMC formula*	AMC+1 formula**	Community hospital formula***
	Less than 35	5.00%	3.0%	4.0%	1.5%
	35-44	6.00	4.0	5.0	2.0
	45-54	7.00	5.0	6.0	2.5
	55-59	8.75	6.0	7.0	3.0
	60-64	9.75	7.0	8.0	3.5
	65-69	10.75	8.0	9.0	4.0
	70-79	12.00	9.0	10.0	4.5
	80+	13.00	9.0	10.0	4.5
	Minimum annual Cash Balance Credit	\$0	\$1,250	\$1,250	\$0
	Prior to 2017, other Cash Balance Credit schedules applied.				
	* BWH (other than Nurses), MGB, AHP, MEEI and non-grandfathered participants in MCL and SRH. ** BWPO, MGPO and MEEA Physicians and non-grandfathered participants in GHC and MPO. *** All other participants.				
Interest Credits	Interest on the amount of the member's cash balance account as of the first day of each calendar year shall be credited as of the date of determination, prior to the crediting of any annual Cash Balance Credit for such calendar year.				

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	The Interest Credit will be equal to the one-year U.S. Treasury bill rate as of the prior September plus 1%. It will not be less than 5.0% nor greater than 12.0%.
Cash Balance Account	The sum of the Opening Balance Credit, the Annual Cash Balance Credits, and the Interest Credits.
Cash Balance Account Annuity	The member's Cash Balance Account as of the date of determination divided by the immediate annuity factor based on the member's age as of the date of determination.

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Special Minimum Benefit	For certain prior plan participants, 2% of Final Average Monthly Compensation times years of Benefit Service up to a maximum of 25 years, plus 1/2% of Final Average Monthly Compensation times years of Benefit Service in excess of 25 years, adjusted by early retirement reduction factors as specified in the prior plan, if applicable.
Prior Plan Benefit	For BWH and BWPO non-physician employees: 1.2% of Final Average Monthly Compensation for each year of Benefit Service up to 25 years, plus ¼ of 1% of Final Average Monthly Compensation for each year of Benefit Service in excess of 25. Prior plan Benefits were frozen for non-union employees as of December 31, 1998 for employees hired prior to age 40. No Prior plan Benefits apply to non-union employees hired after 1998 or union employees hired after 2000.
Frozen Union Hospital (UH) Benefit	Former participants in the UH sub-plan may have a frozen benefit under that plan.
Frozen MEEI Benefit	Former participants in the MEEI sub-plan may have a frozen benefit under that plan.

Eligibility for Benefits

Normal Retirement	Retirement on NRD
Early Retirement	For former participants in the UH sub-plan: Retirement before NRD and on or after both attaining age 55 and completing ten years of credited service For former participants in the MEEI sub-plan: Retirement before NRD and on or after both attaining age 55 with five years of service. For all other employees: Retirement before NRD and on or after the attainment of age 55 and three years of vesting service.
Postponed Retirement	Retirement after NRD
Special Minimum Benefit Eligibility	Prior plan members whose age as of September 30, 1989 was 55 or more (45 or more for McLean Hospital employees) and whose years of vesting service was 10 or more, or whose age was 65 or greater and whose years of vesting service was 5 or more.

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BWH Prior Plan Benefit Eligibility	Prior plan Benefits were frozen for non-union employees as of December 31, 1998 for employees hired prior to age 40. No Prior plan Benefits apply to non-union employees hired after 1998 or union employees hired after 2000.
Deferred Vested Termination	Termination for reasons other than death or retirement after completing three years of vesting service.
Preretirement Death Benefit	Death while eligible for normal, early, postponed or deferred vested retirement.

Benefits Paid Upon the Following Events

Normal Retirement	For BWH and BWPO employees: Cash Balance Account Annuity not less than the Prior Plan Benefit; if applicable For former participants in the UH sub-plan: Cash Balance Account Annuity plus the Frozen Union Hospital (UH) Benefit, if applicable. For former participants in the MEEI sub-plan: Cash Balance Account Annuity plus the Frozen MEEI Benefit, if applicable. For all other employees: Cash Balance Account Annuity not less than the Special Minimum Benefit, if applicable.
Early Retirement	For BWH and BWPO employees: Cash Balance Account Annuity payable at any age beginning with early retirement age, but no later than normal retirement age and not less than the Prior plan Benefit, if applicable. If the payment of the benefits is deferred, the Cash Balance Account will accrue Interest Credits until payments commence. If applicable the Prior plan Benefit is reduced by 6-2/3% for each of the first five years and 3-1/3% for each subsequent year that benefit commencement precedes Normal Retirement Date. For former participants in the UH sub-plan: Normal retirement benefit determined as of early retirement date, reduced by 5/9 of 1% for each of the first 60 months and by 5/18 of 1%

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	for each of the next 60 months by which commencement of benefit payments precedes the participant's normal retirement date For former participants in the MEEI sub-plan: Calculated as for normal retirement, but based upon earnings and service as of the date of early retirement. Frozen Final Average Benefit early retirement benefits are reduced by 4% per year and all other benefits are actuarially reduced for each year that benefit commencement precedes age 65. For all other employees: Cash Balance Account Annuity not less than the Special Minimum Benefit, if applicable, payable at any age beginning with his early retirement age, but no later than his Normal Retirement Age.
Postponed Retirement	For former participants in the UH sub-plan: The greater of: a) Normal retirement benefit determined as of actual retirement date based on all plan years in which the participant completed 1,000 hours of service; and b) Normal retirement benefit determined as of the participant's NRD, actuarially increased to the actual retirement date. For former participants in the MEEI sub-plan: A participant who works beyond normal retirement age will receive the greater of: a) the normal retirement pension described above but based on earnings and service to actual retirement date, and b) accrued benefit at normal retirement age with actuarial increase. For all other employees: Cash Balance Account Annuity not less than the Special Minimum Benefit, if applicable, payable at postponed retirement age.
Deferred Vested Termination	For BWH and BWPO employees: Cash Balance Account Annuity payable at any age but no later than normal retirement age, and not less than the Prior plan Benefit if applicable. If the benefit is deferred, the Cash Balance Account will accrue Interest Credits until payments commence.

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	If applicable, the Prior plan Benefit, if paid prior to normal retirement age, would be reduced as for early retirement. For former participants in the UH sub-plan: Normal retirement benefit payable at NRD or, at the participant's election, a reduced benefit payable as early as age 55 if he had completed ten or more years of credited service prior to termination. The benefit would be reduced as if for early retirement. For former participants in the MEEI sub-plan: Reduced amounts are available for commencement at any time after termination based on an actuarially equivalent reduction. For all other employees: Cash Balance Account Annuity not less than the Special Minimum Benefit, if applicable, payable at any age but no later than normal retirement age. If the benefit is deferred, the Cash Balance Account will accrue Interest Credits until payments commence.
Preretirement Death Benefit	For BWH and BWPO employees: Vested participants are entitled to preretirement death benefit coverage. The death benefit payable to the beneficiary is the Cash Balance Account Annuity, but not less than the Prior plan Benefit, if applicable. If applicable, the Prior plan Benefit would be reduced as for early retirement. For former participants in the UH sub-plan: The amount of death benefit payable to a surviving spouse is 50% of the benefit the participant would have received if the participant had retired on the date of his death and elected a 50% joint & survivor annuity. Upon the death of a married participant (active or terminated) who is vested in his accrued benefit but who has not attained eligibility for early retirement as of his date of death, his spouse will be entitled to receive a benefit that is actuarially equivalent to 50% of the benefit the participant would have received if he had retired at the earliest retirement age and had elected a 50% joint and survivor annuity. The pre-retirement death benefit of a participant who remains in service after his normal retirement date and who has elected a form of payment will be governed by the election made. For former participants in the MEEI sub-plan:

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	The death benefit payable to the beneficiary is equal to 50% of the deceased participant's accrued benefit under the 50% joint-and-survivor form of payment, but in no event, less than the value of the participant's cash balance account. This benefit is payable at the participant's earliest possible retirement age and is reduced for early commencement. For all other employees: Cash Balance Account Annuity not less than the Special Minimum Benefit, if applicable, determined using beneficiary's age at birthday nearest the date benefits will commence.
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Other Plan Provisions															
Normal Form of Payment	The normal form of retirement benefit for employees who are married shall be the actuarially reduced benefit provided under a 50% contingent annuitant pension, unless an employee elects an optional form of payment. The normal form of payment for single employees is the single life annuity.														
Optional Forms of Payment	The optional forms of payment include the 50%, 66-2/3%, 75% and 100% contingent annuitant option, a life annuity option for married participants, a 10, 15 or 20 year certain and continuous option, a 10, 15 or 20 year certain option and a lump sum option.														
Actuarial Equivalence	For former participants in the UH sub-plan: The actuarial equivalence factor used to convert the single life annuity into an optional form is calculated using the following: <table data-bbox="560 814 1414 1556"> <thead> <tr> <th data-bbox="560 814 873 842"><i>Payment Form</i></th><th data-bbox="873 814 1414 877"><i>Percentage of Accrued Benefit (Determined by rounding to the nearest month)</i></th></tr> </thead> <tbody> <tr> <td data-bbox="560 898 873 926">Joint and Survivor Annuity</td><td data-bbox="873 898 1414 989">92% plus (or minus) 1/24th of 1% for each month by which spouse is older (or younger) than the Participant</td></tr> <tr> <td data-bbox="560 1010 873 1037">50% Contingent Annuity</td><td data-bbox="873 1010 1414 1100">92% plus (or minus) 1/24th of 1% for each month by which spouse is older (or younger) than the Participant</td></tr> <tr> <td data-bbox="560 1121 873 1148">66-2/3% Contingent Annuity</td><td data-bbox="873 1121 1414 1211">89% plus (or minus) 1/18th of 1% for each month by which spouse is older (or younger) than the Participant</td></tr> <tr> <td data-bbox="560 1232 873 1260">75% Contingent Annuity</td><td data-bbox="873 1232 1414 1323">87.5% plus (or minus) 1/16th of 1% for each month by which spouse is older (or younger) than the Participant</td></tr> <tr> <td data-bbox="560 1344 873 1371">100% Contingent Annuity</td><td data-bbox="873 1344 1414 1434">83% plus (or minus) 1/12th of 1% for each month by which spouse is older (or younger) than the Participant</td></tr> <tr> <td data-bbox="560 1455 873 1518">Ten year Certain and Life Annuity</td><td data-bbox="873 1455 1414 1556">93.3% plus 1/80th of 1% for each month by which the date on which benefits commence precedes the Participant's Normal Retirement Date</td></tr> </tbody> </table> For former participants in the MEEI sub-plan: The Cash Balance Account and Match Benefit are converted to the annuity payment forms using the mortality table described in Revenue Ruling 2001-62 and the annual yield on 30-year Treasury Securities for	<i>Payment Form</i>	<i>Percentage of Accrued Benefit (Determined by rounding to the nearest month)</i>	Joint and Survivor Annuity	92% plus (or minus) 1/24 th of 1% for each month by which spouse is older (or younger) than the Participant	50% Contingent Annuity	92% plus (or minus) 1/24 th of 1% for each month by which spouse is older (or younger) than the Participant	66-2/3% Contingent Annuity	89% plus (or minus) 1/18 th of 1% for each month by which spouse is older (or younger) than the Participant	75% Contingent Annuity	87.5% plus (or minus) 1/16 th of 1% for each month by which spouse is older (or younger) than the Participant	100% Contingent Annuity	83% plus (or minus) 1/12 th of 1% for each month by which spouse is older (or younger) than the Participant	Ten year Certain and Life Annuity	93.3% plus 1/80 th of 1% for each month by which the date on which benefits commence precedes the Participant's Normal Retirement Date
<i>Payment Form</i>	<i>Percentage of Accrued Benefit (Determined by rounding to the nearest month)</i>														
Joint and Survivor Annuity	92% plus (or minus) 1/24 th of 1% for each month by which spouse is older (or younger) than the Participant														
50% Contingent Annuity	92% plus (or minus) 1/24 th of 1% for each month by which spouse is older (or younger) than the Participant														
66-2/3% Contingent Annuity	89% plus (or minus) 1/18 th of 1% for each month by which spouse is older (or younger) than the Participant														
75% Contingent Annuity	87.5% plus (or minus) 1/16 th of 1% for each month by which spouse is older (or younger) than the Participant														
100% Contingent Annuity	83% plus (or minus) 1/12 th of 1% for each month by which spouse is older (or younger) than the Participant														
Ten year Certain and Life Annuity	93.3% plus 1/80 th of 1% for each month by which the date on which benefits commence precedes the Participant's Normal Retirement Date														

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	the month of August preceding the plan year in which the conversion is made. The Frozen Final Average Benefit and Background Benefit are converted to a lump sum using the mortality assumptions prescribed under Section 417(e)(3)(B) of the Internal Revenue Code and the applicable interest rate described under Section 417(e)(3)(C) of the Internal Revenue Code for the month of August preceding the plan year in which the conversion was made. For BWH and BWPO employees: For balances earned prior to 2017 for all participants other than BWH nurses and for balances earned prior to 8/15/2019 for BWH nurses, the actuarial equivalence factor is calculated using a 7.50% interest rate and the 1951 GAM Projected to 1960 Mortality Table set back two years for participants and 1951 GAM Projected to 1960 Mortality Table set back three years for beneficiaries. For balances earned post-2016 for all participants other than BWH nurses, and for balances earned after 8/15/2019 for BWH nurses, the interest used is 5.0% and the mortality used is the Applicable Mortality table established by the IRS under 417(e)(3) in effect the 2019 Plan Year for BWH nurses and for the current Plan Year for all other participants. These factors are used to convert cash balance accounts to an annuity and to convert from the normal form of payment to any optional form. For all other employees: For all balances for prior plan participants and for balances earned prior to 2017, for all other participants: The actuarial equivalence factor is calculated using a 7.50% interest rate and the 1951 GAM Projected to 1960 Mortality Table set back two years for participants and 1951 GAM Projected to 1960 Mortality Table set back three years for beneficiaries. These factors are used to convert cash balance accounts accrued before 2009 to an annuity and to convert from the normal form of payment to any optional form. For Post 2008 Cash Balance Accruals, the Applicable Mortality table established by the IRS under 417(e)(3) in effect for the Plan Year is used to convert the cash balance account to an annuity. For balances earned post-2016 for non-prior plan participants the interest used is 5.0% and the mortality used is Applicable Mortality table established by the IRS under 417(e)(3) in effect for the Plan Year. These factors are used to convert the account balance to an
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	annuity and to convert from the normal form of payment to all optional forms.
Limits on benefits and pay	All benefits and pay for any calendar year may not exceed the maximum limitations for that year as defined in the Internal Revenue Code. The plan provides for increasing the dollar limits automatically as such changes become effective. Increases in the dollar limits are assumed for determining pension cost.

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Future Plan Changes

Willis Towers Watson is not aware of any significant benefits required to be valued that were not.

Changes in Benefits Valued Since Prior Year

There have been no changes in benefits valued since the prior year.

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Plan Provisions for CDH participants

Plan Provisions	
Status of Plan	For all participants except those who are members of the MNA and VNA unions, pay and service were frozen as of January 2, 2010. The plan is closed to new entrants effective February 6, 2012 and February 16, 2012 for members of the MNA and VNA unions, respectively.
Effective Date	July 1, 1976, as restated July 1, 2010
Eligible Employees	Any member in the plan prior to July 1, 1985 and not otherwise excluded is a member in this plan on July 1, 1987. Otherwise, each employee becomes a member on the first day of the month coincident with or next following the completion of one year of service and attainment of age 21 provided such member elects to make contributions to the plan.
Definitions	
Credited Service	Total years and months of service as a contributing member under this plan and the prior plan of the employer including disability credited service.
Vesting Service	An employee's period of employment with the employer commencing on the date he/she first performs an hour of service and ending on the employee's "date of severance" which shall be the earlier of the date of his/her termination, retirement or death or the first anniversary of his/her absence for any other reason. Vesting Service also includes a period of severance of less than twelve months.
Pensionable Earnings	Base pay, overtime, shift differential and weekend bonuses paid in a calendar year plus any pre-tax contributions made by the employee to a plan maintained by the employer.
Final Average Earnings	The highest average compensation for the 5 consecutive calendar years as a contributing member within 10 years immediately preceding the date of determination.

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Social Security Average Earnings	The average of the maximum amount of wages subject to Social Security taxes (the "wage base") for the thirty-five-year period ending with the year in which the member attains Social Security Retirement Age. In determining the member's Social Security Average earnings in a plan year, the wage base in effect for the calendar year beginning prior to the first day of the plan year shall be deemed to be the wage base for such a plan year. Notwithstanding the foregoing, if the member is retiring on or after his/her normal retirement date, the wage base in effect for the plan year in which his/her normal retirement date occurs shall be assumed to continue in determining such average. If a member terminates employment prior to his/her normal retirement date, the wage base in effect for the plan year in which his/her termination occurs shall be assumed to continue in determining such average.
Normal Retirement Date (NRD)	First day of the month coincident with or next following the attainment of age 65.
Normal Retirement Benefit	The sum of (a), (b) and (c) where: a. is 1.3% of Final Average Earnings multiplied by years of Credited Service; b. is .5% of Final Average Earnings in excess of \$9,000 multiplied by years of Credited Service up to July 1, 1987 not to exceed 25 years and; c. is .5% of Final Average Earnings in excess of Social Security Average Earnings multiplied by the lesser of Credited Service after July 1, 1987 or the number of years by which 25 exceeds the years of Credited Service up to July 1, 1987.
Eligibility for Benefit	
Normal retirement	Retirement on NRD.
Early retirement	Retirement before NRD and on or after the attainment of age 55 and three years of Vesting Service.
Postponed retirement	Retirement after NRD.

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Deferred vested	Termination for reasons other than death or retirement after meeting the following criteria: Benefit attributable to employee contributions is fully vested at all times Benefit attributable to employer contributions is 100% vested for participants before 7/1/1987. All other members are 20% vested after completion of three years of vesting service increasing 20% for each additional year thereafter to 100% after 7 years of vesting service.
Preretirement death benefit	Death while eligible for normal, early, postponed or deferred vested retirement.
Benefits Paid Upon the Following Events	
Normal retirement	Normal retirement benefit determined as of NRD
Early retirement	If applicable, normal retirement benefits reduced by 6-2/3% for each of the first 5 years and 3-1/3% for each of the subsequent 5 years that benefit commencement precedes Normal Retirement Date. For members with 25 years of Credited Service, normal retirement benefits reduced 6-2/3% for each of the first 5 years and 3-1/3% for each of the subsequent 2 years that benefit commencement precedes age 62.
Termination with deferred vested benefits	Normal retirement benefit payable at NRD or, at the participant's election, a reduced benefit payable as early as age 55 if completed 3 or more years of vesting service prior to termination. The benefit would be reduced as if for early retirement.

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Preretirement death	<u>Unmarried Member</u> Member's accumulated contributions with interest payable to designated beneficiary. <u>Married Member</u> If a married member dies before the earlier of attaining age 55 and becoming vested in any portion of the employer derived benefit, the surviving spouse is eligible to receive a refund of the member's accumulated contributions with interest or an actuarially equivalent single life annuity payable to the spouse. If a married member dies after the earlier of attaining age 55 and becoming vested in any portion of the employer derived benefit, the surviving spouse will receive the survivor portion of an annuity calculated as if the member has terminated employment on the day before his/her death and elected the 66 2/3% contingent annuitant option with 120 months guaranteed payable at the member's Normal Retirement Date. At the election of the spouse, the benefit may be payable on the first day of any month following the member's death. If payments commence on or after the member's 55th birthday, no reduction for early commencement is applied. If payments commence prior to the member's 55th birthday, the benefit is actuarially reduced to reflect early commencement.
Death Benefit Guarantee	If the total sum of all benefits paid to the member and a surviving spouse or beneficiary is less than the member's accumulated contributions with interest, a residual death benefit payment will be made equal to the member's accumulated contributions with interest over the total death benefits paid to the member and surviving spouse or beneficiary.

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Other Plan Provisions	
Optional forms of payment	The optional forms of payment include the 66-2/3% and 75% contingent annuitant option, a life annuity with 36 monthly payments guaranteed option, 66 2/3% contingent annuitant option with 120 months guaranteed, a 10 or 15 year certain and continuous option, non-refund life annuity and full cash refund annuity.
Actuarial equivalence	All optional forms are adjusted from the normal form of payment using actuarial equivalence factors based on interest assumption of 9.5% compounded annually and the 1983 Group Annuity Mortality Table projected to 1988 by scale H assuming all male employees and beneficiaries and reducing the ages of employees and beneficiaries by four years.
Mandatory Employee Contributions	1.5% of Annual Earnings
Withdrawal of Employee Contributions with Interest	A member may, at any time, request a withdrawal of accumulated member contributions with interest. The Normal Retirement Benefit is reduced by the actuarial equivalent of the accumulated contributions with interest.
Future Plan Changes	
Willis Towers Watson is not aware of any significant benefits required to be valued that were not.	
Changes in Benefits Valued Since Prior Year	
There have been no changes in benefits valued since the prior year.	

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Plan Provisions for NCH participants

Plan Provisions	
Effective Date	October 1, 1973. Amended and restated effective as of October 1, 2008.
Status of Plan	Frozen Plan as of September 30, 2006.
Covered Employees	Each person employed by the Nantucket Cottage Hospital shall be eligible to participate in the plan on the October 1 or April 1 coincident with or next following the date on which he has both: a. Completed one year of participation service; and b. Attained the age of 21 An employee completes a year of participation service if he completes 1,000 hours in the 12-month period following his date of hire or in any subsequent 12-month period beginning on an anniversary of his date of hire. Effective September 30, 2006, no further employees shall be eligible to participate in the plan.
Participation Date	Date of becoming a covered employee
Definitions	
Vesting service	One year for each 1,000-hour plan year of employment.
Credited service	One year for each 1,875-hour plan year of employment.
Average monthly earnings	Monthly average of the highest five (5) consecutive years of total compensation, limited to IRC Section 401(a)(17) pay limitation.
Normal retirement date (NRD)	First of the month coincident with or following the later of the participant's (1) 65th birthday or (2) fifth anniversary of plan participation.
Monthly pension benefit	The greater of \$10 times years of credited service or 1% of average monthly earnings times years of credited service up to 25 years. Effective September 30, 2006, benefit accruals shall be frozen and shall not increase above the amount accrued as of September 30, 2006.

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Eligibility for Benefits	
Normal retirement	Retirement on NRD
Early retirement	Retire before NRD and on or after both attaining age 55 and completing 5 years of service.
Postponed retirement	Retirement after NRD
Vested termination	Terminate for reasons other than death or retirement after completing five years of service. Effective October 1, 2006, all plan participants are 100% vested.
Preretirement Death	Death while eligible for deferred vested, early, normal or postponed retirement benefits with a surviving spouse.
Benefits Paid Upon the Following Events	
Normal Retirement	Monthly pension benefit determined as of NRD
Early retirement	Monthly pension benefit determined as of early retirement date, reduced by 3/5 of 1% for each of the first 60 months and by 3/10 of 1% for each of the next 60 months by which commencement of benefit payments precedes the participant's normal retirement date.
Postponed retirement	Monthly pension benefit determined as of postponed retirement
Vested termination	Monthly pension benefit determined as of benefit commencement (not earlier than age 55)
Preretirement Death	The amount of death benefit payable to a surviving spouse is 50% of the benefit the participant would have received if the participant had retired on the date of his death and elected a 50% joint & survivor annuity. Upon the death of a married participant (active or terminated) who is vested in his accrued benefit but who has not attained eligibility for early retirement as of his date of death, his spouse will be entitled to receive a benefit that is actuarially equivalent to 50% of the benefit the participant would have received if he had retired at the earliest retirement age and had elected a 50% joint and survivor annuity. The pre-retirement death benefit of a participant who remains in service after his normal retirement date and who has elected a form of payment will be governed by the election made.

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Other Plan Provisions	
Forms of Payment	<i>Normal Form:</i> Actuarially equivalent 50% Joint and Survivor annuity if married on date of benefit commence; life annuity if single. <i>Optional Forms:</i> Actuarially equivalent (to life annuity): 50%, 75% or 100% Joint and Survivor annuity, 10 year certain and continuous annuity and life annuity (for married participants) Benefits are converted to the optional form of payment elected using the plan actuarial equivalence of 7-½% interest and the 1983 Group Annuity Mortality Table for males and females (50% blend).
Maximum on benefits and pay	All benefits and pay for any calendar year may not exceed the maximum limitations for that year as defined in the Internal Revenue Code.
Future Plan Changes	
Willis Towers Watson is not aware of any future plan changes which are required to be reflected.	
Changes in Benefits Valued Since Prior Year	
There have been no changes in benefits valued since the prior year.	

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Schedule SB, Line 26a Schedule of Active Participant Data as of October 1, 2022

Attained Age	Attained Years of Credited Service ⁴										Total
	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	
Under 25	4	2,112	30	0	0	0	0	0	0	0	2,146
	-	44,729	40,970	0	0	0	0	0	0	0	44,658
25-29	6	4,466	1,370	34	0	0	0	0	0	0	5,876
	-	39,649	68,490	61,972	0	0	0	0	0	0	60,339
30-34	6	3,314	3,284	708	44	1	0	0	0	0	7,357
	-	73,242	81,280	83,523	67,691	0	0	0	0	0	77,772
35-39	5	2,113	2,747	1,809	614	34	2	0	0	0	7,324
	-	88,324	104,196	109,207	97,123	111,278	0	0	0	0	100,274
40-44	7	1,377	1,769	1,510	1,270	396	11	0	0	0	6,340
	-	82,179	108,335	128,433	127,665	121,064	0	0	0	0	112,073
45-49	6	1,125	1,284	1,070	1,340	967	219	10	0	0	6,021
	-	83,957	99,102	121,736	136,616	137,674	124,281	0	0	0	115,749
50-54	5	957	1,106	972	1,040	1,002	469	214	21	1	5,787
	-	81,240	97,363	105,431	114,982	131,490	141,035	115,903	91,746	0	109,281
55-59	5	810	1,066	887	981	959	563	392	268	19	5,950
	-	80,140	93,539	92,190	101,598	114,361	134,639	132,655	129,669	0	104,256
60-64	3	603	829	737	856	763	473	411	387	261	5,323
	-	79,037	98,529	89,327	95,035	99,156	110,954	118,386	123,814	115,743	99,870
65-69	1	260	350	330	375	353	265	218	161	235	2,548
	-	76,405	90,174	92,276	93,271	100,818	96,024	94,719	100,899	114,528	94,858
70 & over	1	89	100	111	118	137	73	79	59	120	887
	-	68,378	79,180	79,267	93,550	81,773	84,806	60,289	50,231	74,238	77,119
Total	49	17,226	13,935	8,168	6,638	4,612	2,075	1,324	896	636	55,559
	43,336	70,048	92,979	106,798	113,653	119,004	122,823	114,960	115,851	106,875	94,654

⁴ Age and service for purposes of determining category are based on exact (not rounded) values.

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Schedule SB, Line 26a - Schedule of Active Participant Data as of October 1, 2022

Number and average account balance distributed by attained age and attained years of credited service

Attained Age	Attained Years of Credited Service ⁵										Total
	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	
Under 25	3	2,082	30	0	0	0	0	0	0	0	2,115
	-	983	3,649	-	-	-	-	-	-	-	1,020
25-29	5	4,460	1,370	34	0	0	0	0	0	0	5,869
	-	3,069	12,126	16,711	-	-	-	-	-	-	5,260
30-34	3	3,311	3,284	707	44	1	0	0	0	0	7,350
	-	4,393	17,968	38,822	31,321	-	-	-	-	-	13,931
35-39	4	2,101	2,743	1,809	614	34	2	0	0	0	7,307
	-	6,077	22,665	49,977	69,361	58,896	-	-	-	-	28,748
40-44	5	1,371	1,759	1,509	1,270	396	11	0	0	0	6,321
	-	6,245	27,363	51,357	85,670	123,981	-	-	-	-	46,486
45-49	3	1,112	1,279	1,067	1,339	966	219	10	0	0	5,995
	-	7,168	27,418	56,491	89,310	145,798	190,926	-	-	-	67,883
50-54	4	940	1,091	961	1,035	1,001	467	214	21	1	5,735
	-	7,417	30,612	66,381	104,313	152,620	224,995	266,421	134,009	-	92,411
55-59	3	787	1,056	878	977	955	562	390	268	19	5,895
	-	8,693	34,528	72,091	112,046	181,967	234,495	342,873	412,565	-	130,845
60-64	2	579	811	726	845	757	470	409	387	261	5,247
	-	11,739	42,872	83,474	126,901	192,859	243,767	343,171	451,031	461,243	172,528
65-69	0	252	340	327	371	350	264	218	161	235	2,518
	-	14,704	46,756	95,598	147,231	212,649	248,066	313,980	440,544	497,632	199,254
70 & over	1	87	99	108	117	136	72	79	59	119	877
	-	16,210	40,302	92,252	118,158	190,351	171,671	270,166	304,285	438,141	181,154
Total	33	17,082	13,862	8,126	6,612	4,596	2,067	1,320	896	635	55,229
	4,079	4,994	24,932	59,699	100,645	166,409	228,769	319,911	420,548	464,638	70,859

⁵ Age and service for purposes of determining category are based on exact (not rounded) values.

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Schedule SB, Line 26b Schedule of Projection of Expected Benefit Payments

Plan Year	Active Participants	Terminated Vested Participants	Retired Participants and Beneficiaries Receiving Payments	Total
2022	111,687,399	151,175,229	197,000,702	459,863,330
2023	120,155,617	39,309,481	189,839,645	349,304,743
2024	139,213,618	43,170,882	185,535,462	367,919,962
2025	160,725,615	43,689,001	180,993,273	385,407,889
2026	180,642,152	44,101,501	175,693,698	400,437,351
2027	200,750,417	47,317,858	169,274,668	417,342,943
2028	220,365,808	52,877,780	162,558,973	435,802,561
2029	236,332,562	51,671,367	155,202,964	443,206,893
2030	253,749,321	53,004,299	147,020,409	453,774,029
2031	268,993,337	52,441,392	138,691,067	460,125,796
2032	281,959,341	55,493,975	131,253,859	468,707,175
2033	296,957,731	53,991,341	124,777,995	475,727,067
2034	309,903,383	56,041,948	117,704,123	483,649,454
2035	321,820,300	55,843,040	109,988,224	487,651,564
2036	332,821,752	59,004,925	101,956,072	493,782,749
2037	342,497,706	58,560,516	93,827,830	494,886,052
2038	354,620,257	59,984,732	86,008,256	500,613,245
2039	362,926,482	62,767,291	78,562,374	504,256,147
2040	365,836,413	61,385,211	71,042,548	498,264,172
2041	372,670,630	66,015,210	63,377,069	502,062,909
2042	374,464,446	64,683,431	56,337,748	495,485,625
2043	377,425,689	65,566,680	49,938,963	492,931,332
2044	379,516,022	70,560,044	43,788,685	493,864,751
2045	378,676,136	70,759,795	37,959,589	487,395,520
2046	377,180,421	71,034,624	32,516,681	480,731,726
2047	375,160,169	70,166,064	27,513,626	472,839,859
2048	369,772,427	73,303,035	22,989,788	466,065,250
2049	366,748,270	74,339,375	18,968,199	460,055,844

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Plan Year	Active Participants	Terminated Vested Participants	Retired Participants and Beneficiaries Receiving Payments	Total
2050	356,435,028	70,879,879	15,454,755	442,769,662
2051	345,348,837	70,546,310	12,438,957	428,334,104
2052	333,280,970	69,753,396	9,896,070	412,930,436
2053	318,777,421	65,434,164	7,790,067	392,001,652
2054	306,138,933	62,638,840	6,077,032	374,854,805
2055	289,387,117	60,227,500	4,708,381	354,322,998
2056	274,360,309	56,804,954	3,633,869	334,799,132
2057	258,964,712	55,605,738	2,804,363	317,374,813
2058	239,768,241	49,545,256	2,173,941	291,487,438
2059	225,123,623	44,843,466	1,701,412	271,668,501
2060	207,796,876	41,282,622	1,351,190	250,430,688
2061	192,189,208	38,630,880	1,093,539	231,913,627
2062	176,616,625	35,897,427	904,438	213,418,490
2063	161,978,703	33,642,300	765,099	196,386,102
2064	149,343,841	31,705,011	661,240	181,710,092
2065	137,590,053	29,827,582	582,304	167,999,939
2066	126,561,932	27,962,952	520,687	155,045,571
2067	116,094,764	26,131,374	471,034	142,697,172
2068	106,103,673	24,327,853	429,646	130,861,172
2069	96,624,242	22,619,982	394,006	119,638,230
2070	87,609,021	20,822,797	362,427	108,794,245
2071	79,088,552	19,121,776	333,799	98,544,127

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Schedule SB, Line 22 Description of Weighted Average Retirement Age as of October 1, 2022

For each active participant an expected retirement age was calculated, weighted in proportion to the probability that the individual would remain an active participant to each age and then retire at that age. The plan's weighted average retirement age of 64 is the arithmetic average of the expected retirement ages of all participants in the Consolidated Cash Balance Program of Partners HealthCare and Member Organizations based on the hypothetical method. Note that participants in the former plans in table II have a lower weighted average retirement age.

The rates of retirement at each age are as follows:

Table I

For Consolidated Cash Balance Program of Partners HealthCare and Member Organizations (pre-merger), former Brigham and Women's Hospital Retirement Plan, and former Retirement Plan for Employees of North Shore Medical Center – Union Hospital participants:

(1) Age	(2) Exposure	(3) Retirement Rate Decrement	(4) Number Retired at Age (2)*(3)	(5) (1)*(4)
55	1,000	5.0%	50	2,750
56	950	5.0%	48	2,660
57	903	5.0%	45	2,572
58	857	5.0%	43	2,486
59	815	5.0%	41	2,403
60	774	7.5%	58	3,482
61	716	7.5%	54	3,275
62	662	7.5%	50	3,079
63	612	10%	61	3,858
64	551	10%	55	3,527
65	496	15%	74	4,837
66	422	20%	84	5,566
67	337	20%	67	4,520
68	270	20%	54	3,670
69	216	20%	43	2,979
70	173	20%	35	2,418
71	138	20%	28	1,962
72	111	20%	22	1,592

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73	88	20%	18	1,291
74	71	20%	14	1,047
75	57	100%	57	4,244

64,217

$$64,217/1000 = 64.217$$

Table II

For former Pension Plan for Employees of the Cooley Dickinson HealthCare Corporation participants:

(1) Age	(2) Exposure	(3) Retirement Rate Decrement	(4) Number Retired at Age (2)*(3)	(5) (1)*(4)
62	1,000	50%	500	31,000
63	500	50%	250	15,750
64	250	50%	125	8,000
65	125	100%	125	8,125

62,875

$$62,875/1000 = 62.875$$

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Schedule SB, Line 26b Schedule of Projection of Expected Benefit Payments

Plan Year	Active Participants	Terminated Vested Participants	Retired Participants and Beneficiaries Receiving Payments	Total
2022	111,687,399	151,175,229	197,000,702	459,863,330
2023	120,155,617	39,309,481	189,839,645	349,304,743
2024	139,213,618	43,170,882	185,535,462	367,919,962
2025	160,725,615	43,689,001	180,993,273	385,407,889
2026	180,642,152	44,101,501	175,693,698	400,437,351
2027	200,750,417	47,317,858	169,274,668	417,342,943
2028	220,365,808	52,877,780	162,558,973	435,802,561
2029	236,332,562	51,671,367	155,202,964	443,206,893
2030	253,749,321	53,004,299	147,020,409	453,774,029
2031	268,993,337	52,441,392	138,691,067	460,125,796
2032	281,959,341	55,493,975	131,253,859	468,707,175
2033	296,957,731	53,991,341	124,777,995	475,727,067
2034	309,903,383	56,041,948	117,704,123	483,649,454
2035	321,820,300	55,843,040	109,988,224	487,651,564
2036	332,821,752	59,004,925	101,956,072	493,782,749
2037	342,497,706	58,560,516	93,827,830	494,886,052
2038	354,620,257	59,984,732	86,008,256	500,613,245
2039	362,926,482	62,767,291	78,562,374	504,256,147
2040	365,836,413	61,385,211	71,042,548	498,264,172
2041	372,670,630	66,015,210	63,377,069	502,062,909
2042	374,464,446	64,683,431	56,337,748	495,485,625
2043	377,425,689	65,566,680	49,938,963	492,931,332
2044	379,516,022	70,560,044	43,788,685	493,864,751
2045	378,676,136	70,759,795	37,959,589	487,395,520
2046	377,180,421	71,034,624	32,516,681	480,731,726
2047	375,160,169	70,166,064	27,513,626	472,839,859
2048	369,772,427	73,303,035	22,989,788	466,065,250
2049	366,748,270	74,339,375	18,968,199	460,055,844

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Plan Year	Active Participants	Terminated Vested Participants	Retired Participants and Beneficiaries Receiving Payments	Total
2050	356,435,028	70,879,879	15,454,755	442,769,662
2051	345,348,837	70,546,310	12,438,957	428,334,104
2052	333,280,970	69,753,396	9,896,070	412,930,436
2053	318,777,421	65,434,164	7,790,067	392,001,652
2054	306,138,933	62,638,840	6,077,032	374,854,805
2055	289,387,117	60,227,500	4,708,381	354,322,998
2056	274,360,309	56,804,954	3,633,869	334,799,132
2057	258,964,712	55,605,738	2,804,363	317,374,813
2058	239,768,241	49,545,256	2,173,941	291,487,438
2059	225,123,623	44,843,466	1,701,412	271,668,501
2060	207,796,876	41,282,622	1,351,190	250,430,688
2061	192,189,208	38,630,880	1,093,539	231,913,627
2062	176,616,625	35,897,427	904,438	213,418,490
2063	161,978,703	33,642,300	765,099	196,386,102
2064	149,343,841	31,705,011	661,240	181,710,092
2065	137,590,053	29,827,582	582,304	167,999,939
2066	126,561,932	27,962,952	520,687	155,045,571
2067	116,094,764	26,131,374	471,034	142,697,172
2068	106,103,673	24,327,853	429,646	130,861,172
2069	96,624,242	22,619,982	394,006	119,638,230
2070	87,609,021	20,822,797	362,427	108,794,245
2071	79,088,552	19,121,776	333,799	98,544,127

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Schedule SB, Part V Summary of Plan Provisions

Plan Provisions for CCB participants

Plan Provisions	
Status of Plan	Active and open to eligible participants.
Covered Employees	All employees who were included in the prior plan on September 30, 1989 will continue to be included on October 1, 1989. Eligible employees include any employee of: • The Massachusetts General Hospital • The General Hospital Corporation (GHC) • The McLean Hospital Corporation (MCL) • The MGH Professional Services Corporation (MPO) • The MGH Institute of Health Professions, Inc. • The MGH Health Services Corporation • Mass General Brigham – Enterprise Services (MGB) (effective 7/1/1996) • Mass General Brigham HomeCare, Inc. (MGBHC) (effective 7/1/1999 for the Affiliated Community Visiting Nurse Association, 5/1/2000 for Spaulding Home Health and 7/1/2000 for the North End Community Health Committee) • Spaulding Rehabilitation, including: • Spaulding Rehabilitation Hospital Boston • Spaulding Hospital for Continuing Medical Care Cambridge • Spaulding Rehabilitation Hospital North Shore (SNS) (effective 1/1/2017) • Spaulding Rehabilitation Hospital Cape Cod (SCC) (effective 1/1/2017) • Mass General Brigham Health Plan, formerly AllWays Health Partners or Neighborhood Health Plan (NHP) (effective 9/1/13)

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	• North Shore Medical Center (NSMC) (effective 1/1/2017) • Newton Wellesley Hospital (NWH) (effective 1/1/2017) • Martha's Vineyard Hospital (MVH) (effective 1/1/2017 for non-union employees and 7/1/2017 for MNA employees) • Mass General Brigham Community Physicians (MGBCP) (effective 1/1/2017) • MGB Senior Executives (effective 1/1/2017) • Brigham and Women's Hospital (BWH) • Brigham and Women's Physician Organization (BWPO) (effective 1/1/2017) • Faulkner Hospital (excluding nurses) (BWFH) (effective 1/1/2017) • Faulkner Hospital nurses (BWFH) (effective 10/1/2017) • Massachusetts Eye and Ear Infirmary (effective 1/1/2019) • Wentworth Douglas Hospital (WDH) (effective 1/1/2019) • Hopedale Cardiovascular Associates (HCA) (effective 1/1/2022) • Garrison Women's Health (GWH) (effective 5/2/2022) • Commonwealth Radiology Associates (CRA) (effective 10/1/2022) • MGPO and MEEA Physicians* *New hires from MGPO were eligible effective 1/1/2016; new hires from MEEA were eligible effective 1/1/2020; and all existing employees under age 50 are eligible at 1/1/2021. Interns, residents, and fellows are excluded from the plan. Effective January 1, 1993, an individual who actively participates or is eligible to actively participate in the Massachusetts General Hospital Academic Annuity Plan or the Spaulding Rehabilitation Hospital Staff Physician Annuity Plan shall not be an eligible employee under this Plan except for individuals employed by the McLean Hospital Corporation. All employees are eligible upon attaining age 21 and completing 1,000 hours of service in the first year of employment or any subsequent plan year.
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Participation Date	Date of becoming a covered employee.
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Definitions	
Compensation	For BWH, BWPO, and BWFH employees: Compensation means the W-2 earnings plus any amounts contributed by the Hospital through salary reduction for 403(b) annuities and any pre-tax contributions made to a flexible benefits program. Effective January 1, 2017, compensation used in calculating pay credits for all participants other than members of the BWH nurses shall be the basic regular salary paid to a participant during the calendar year, including payments for accrued time off, shift differentials, and salary deferrals to a tax sheltered annuity, limited to the amount permitted under Section 401(a)(17) of the Code. For all other employees: The basic regular salary paid to a Member during the calendar year, including payments for accrued time off, shift differentials, and salary deferrals to a tax-sheltered annuity, limited to the amount permitted under Section 401(a)(17) of the Code.
Final Average Monthly Compensation	Average of a Member's compensation (base salary for 2,080 hours) over 60 consecutive months during his last 120 months while an active member which produces the highest average.
Normal Retirement Date (NRD)	For BWH, BWPO and BWFH employees and former participants in the UH sub-plan: First of the month coinciding with or next following the attainment of age 65. For former participants in MEEI sub-plan: Later of the attainment of age 65 and completion of 5 years of service. For all other employees: First of the month coincident or next following age 65 and the earlier of three years of vesting service and fifth anniversary of plan participation.
Hours of Service	Periods for which an employee is directly or indirectly paid, and periods of authorized unpaid leave of absence.
Vesting Service	Continuous service prior to January 1, 1976, plus one year of service after January 1, 1976 for each calendar year in which the member has at least 1,000 hours of service.

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Benefit Service	For BWH and BWPO employees: Benefit Service is based on calendar years in which a participant is paid for at least 1,000 hours. A full year is credited for 2,080 hours in a calendar year and fractional years are credited if the participant has less than 2,080 hours but at least 1,000 hours in a calendar year. For all other employees: Before January 1, 1976 – Continuous service with pro rata reduction for service less than 40 hours per week. After January 1, 1976 One year of service for each calendar year of membership in which the member has 2,080 hours of service; plus a pro rata portion of a year of service for each calendar year in which a member has at least 1,000 hours, or in which he leaves the plan or re-enters the plan. As of October 1, 1985, employees who had entered the plan at age 25 were credited with service as the plan had allowed membership to commence at age 21 with one year of service.
Opening Balance Account	For BWH and BWPO employees: The Opening Balance credit of any participant in the plan as of January 1, 1999 for those not covered by a collective bargaining agreement with the MNA or as of January 1, 2001 for those covered by such an agreement is equal to the greater of the cash balance account calculated as though the plan had always been in effect and the present value of the participant's accrued benefit at that date. For all other employees: The single sum actuarial equivalent of the accrued benefit determined under the prior plan as of December 31, 1989 (December 31, 1990 for Spaulding Rehabilitation Hospital members who are not staff physicians) based on the current plan's actuarial equivalence definition. Prior Plan means either the Massachusetts General Hospital Pension Plan or Spaulding Rehabilitation Hospital Pension Plan.

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Cash Balance Credit	For all participants prior to 2017 (2016 for GHC/MPO) and for Prior plan Participants effective January 1, 2017 (January 1, 2016 for GHC/MPO): For each calendar year on or after January 1, 1990 (January 1, 1991 for Spaulding Rehab Hospital members) each member who completes 1,000 hours of service shall receive a Cash Balance Credit equal to Compensation multiplied by the percentage based on the following schedule:			
	Sum of Age Plus Years <u>of Vesting</u> <u>Service</u>	Spaulding* <u>Prior plan</u>	PHC** <u>Prior plan</u>	GHC, MPO and MCL*** <u>Prior plan</u>
	Less than 30	3%	1.5%	5%
	30-39	4	2.0	6
	40-44	5	2.5	7
	45-49	5	3.0	8
	50-54	6	3.5	9
	55-59	7	4.0	10
	60-64	8	4.5	11
	65-69	9	5.0	12
	70-74	10	5.5	13
	75-79	11	6.0	14
	80 or more	12	6.0	15
	Each member shall receive an additional credit equal to 0.6 percent of Compensation in excess of the greater of \$10,000 or one-half of the Covered Compensation amount of an individual attaining Social Security Retirement Age in the calendar year.			
	* Anyone in PHC Prior plan (HomeCare employees who became cash balance plan members before July 1, 2000), Spaulding or Spaulding Cambridge who is 55 years old and has 10 years of service on 1/1/2017 and is actively employed. ** Anyone in Boston Center and North End or those PHC non-prior plan who is 55 years old and has 10 years of service on 1/1/2017 and is actively employed. *** For GHC and MPO, all hired before 1/1/2016; for MCL, anyone with age plus service greater than or equal to 65 points on 1/1/2017 and is actively employed.			

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	A \$2,500 minimum annual cash balance accrual is applicable for employees of the Massachusetts General Hospital or McLean Hospital effective December 31, 2010. Participants of GHC who are eligible for the prior plan cash balance pay credit schedule received an increased minimum pay credit for calendar years 2017 through 2019 (\$5,500 for 2017, \$6,000 for 2018, and \$5,500 for 2019).				
	All Other Participants				
	For each calendar year on or after January 1, 2017 each member who completes 1,000 hours of service shall receive a Cash Balance Credit equal to Compensation multiplied by the percentage based on the following schedule:				
	Sum of Age Plus Vesting Service	Percentage of Compensation			
		BWH Nurses	AMC formula*	AMC+1 formula**	Community hospital formula***
	Less than 35	5.00%	3.0%	4.0%	1.5%
	35-44	6.00	4.0	5.0	2.0
	45-54	7.00	5.0	6.0	2.5
	55-59	8.75	6.0	7.0	3.0
	60-64	9.75	7.0	8.0	3.5
	65-69	10.75	8.0	9.0	4.0
	70-79	12.00	9.0	10.0	4.5
	80+	13.00	9.0	10.0	4.5
	Minimum annual Cash Balance Credit	\$0	\$1,250	\$1,250	\$0
	Prior to 2017, other Cash Balance Credit schedules applied.				
	* BWH (other than Nurses), MGB, AHP, MEEI and non-grandfathered participants in MCL and SRH. ** BWPO, MGPO and MEEA Physicians and non-grandfathered participants in GHC and MPO. *** All other participants.				
Interest Credits	Interest on the amount of the member's cash balance account as of the first day of each calendar year shall be credited as of the date of determination, prior to the crediting of any annual Cash Balance Credit for such calendar year.				

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	The Interest Credit will be equal to the one-year U.S. Treasury bill rate as of the prior September plus 1%. It will not be less than 5.0% nor greater than 12.0%.
Cash Balance Account	The sum of the Opening Balance Credit, the Annual Cash Balance Credits, and the Interest Credits.
Cash Balance Account Annuity	The member's Cash Balance Account as of the date of determination divided by the immediate annuity factor based on the member's age as of the date of determination.

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Special Minimum Benefit	For certain prior plan participants, 2% of Final Average Monthly Compensation times years of Benefit Service up to a maximum of 25 years, plus 1/2% of Final Average Monthly Compensation times years of Benefit Service in excess of 25 years, adjusted by early retirement reduction factors as specified in the prior plan, if applicable.
Prior Plan Benefit	For BWH and BWPO non-physician employees: 1.2% of Final Average Monthly Compensation for each year of Benefit Service up to 25 years, plus ¼ of 1% of Final Average Monthly Compensation for each year of Benefit Service in excess of 25. Prior plan Benefits were frozen for non-union employees as of December 31, 1998 for employees hired prior to age 40. No Prior plan Benefits apply to non-union employees hired after 1998 or union employees hired after 2000.
Frozen Union Hospital (UH) Benefit	Former participants in the UH sub-plan may have a frozen benefit under that plan.
Frozen MEEI Benefit	Former participants in the MEEI sub-plan may have a frozen benefit under that plan.
Eligibility for Benefits	
Normal Retirement	Retirement on NRD
Early Retirement	For former participants in the UH sub-plan: Retirement before NRD and on or after both attaining age 55 and completing ten years of credited service For former participants in the MEEI sub-plan: Retirement before NRD and on or after both attaining age 55 with five years of service. For all other employees: Retirement before NRD and on or after the attainment of age 55 and three years of vesting service.
Postponed Retirement	Retirement after NRD
Special Minimum Benefit Eligibility	Prior plan members whose age as of September 30, 1989 was 55 or more (45 or more for McLean Hospital employees) and whose years of vesting service was 10 or more, or whose age was 65 or greater and whose years of vesting service was 5 or more.

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BWH Prior Plan Benefit Eligibility	Prior plan Benefits were frozen for non-union employees as of December 31, 1998 for employees hired prior to age 40. No Prior plan Benefits apply to non-union employees hired after 1998 or union employees hired after 2000.
Deferred Vested Termination	Termination for reasons other than death or retirement after completing three years of vesting service.
Preretirement Death Benefit	Death while eligible for normal, early, postponed or deferred vested retirement.

Benefits Paid Upon the Following Events

Normal Retirement	For BWH and BWPO employees: Cash Balance Account Annuity not less than the Prior Plan Benefit; if applicable For former participants in the UH sub-plan: Cash Balance Account Annuity plus the Frozen Union Hospital (UH) Benefit, if applicable. For former participants in the MEEI sub-plan: Cash Balance Account Annuity plus the Frozen MEEI Benefit, if applicable. For all other employees: Cash Balance Account Annuity not less than the Special Minimum Benefit, if applicable.
Early Retirement	For BWH and BWPO employees: Cash Balance Account Annuity payable at any age beginning with early retirement age, but no later than normal retirement age and not less than the Prior plan Benefit, if applicable. If the payment of the benefits is deferred, the Cash Balance Account will accrue Interest Credits until payments commence. If applicable the Prior plan Benefit is reduced by 6-2/3% for each of the first five years and 3-1/3% for each subsequent year that benefit commencement precedes Normal Retirement Date. For former participants in the UH sub-plan: Normal retirement benefit determined as of early retirement date, reduced by 5/9 of 1% for each of the first 60 months and by 5/18 of 1%

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	for each of the next 60 months by which commencement of benefit payments precedes the participant's normal retirement date For former participants in the MEEI sub-plan: Calculated as for normal retirement, but based upon earnings and service as of the date of early retirement. Frozen Final Average Benefit early retirement benefits are reduced by 4% per year and all other benefits are actuarially reduced for each year that benefit commencement precedes age 65. For all other employees: Cash Balance Account Annuity not less than the Special Minimum Benefit, if applicable, payable at any age beginning with his early retirement age, but no later than his Normal Retirement Age.
Postponed Retirement	For former participants in the UH sub-plan: The greater of: a) Normal retirement benefit determined as of actual retirement date based on all plan years in which the participant completed 1,000 hours of service; and b) Normal retirement benefit determined as of the participant's NRD, actuarially increased to the actual retirement date. For former participants in the MEEI sub-plan: A participant who works beyond normal retirement age will receive the greater of: a) the normal retirement pension described above but based on earnings and service to actual retirement date, and b) accrued benefit at normal retirement age with actuarial increase. For all other employees: Cash Balance Account Annuity not less than the Special Minimum Benefit, if applicable, payable at postponed retirement age.
Deferred Vested Termination	For BWH and BWPO employees: Cash Balance Account Annuity payable at any age but no later than normal retirement age, and not less than the Prior plan Benefit if applicable. If the benefit is deferred, the Cash Balance Account will accrue Interest Credits until payments commence.

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	If applicable, the Prior plan Benefit, if paid prior to normal retirement age, would be reduced as for early retirement. For former participants in the UH sub-plan: Normal retirement benefit payable at NRD or, at the participant's election, a reduced benefit payable as early as age 55 if he had completed ten or more years of credited service prior to termination. The benefit would be reduced as if for early retirement. For former participants in the MEEI sub-plan: Reduced amounts are available for commencement at any time after termination based on an actuarially equivalent reduction. For all other employees: Cash Balance Account Annuity not less than the Special Minimum Benefit, if applicable, payable at any age but no later than normal retirement age. If the benefit is deferred, the Cash Balance Account will accrue Interest Credits until payments commence.
Preretirement Death Benefit	For BWH and BWPO employees: Vested participants are entitled to preretirement death benefit coverage. The death benefit payable to the beneficiary is the Cash Balance Account Annuity, but not less than the Prior plan Benefit, if applicable. If applicable, the Prior plan Benefit would be reduced as for early retirement. For former participants in the UH sub-plan: The amount of death benefit payable to a surviving spouse is 50% of the benefit the participant would have received if the participant had retired on the date of his death and elected a 50% joint & survivor annuity. Upon the death of a married participant (active or terminated) who is vested in his accrued benefit but who has not attained eligibility for early retirement as of his date of death, his spouse will be entitled to receive a benefit that is actuarially equivalent to 50% of the benefit the participant would have received if he had retired at the earliest retirement age and had elected a 50% joint and survivor annuity. The pre-retirement death benefit of a participant who remains in service after his normal retirement date and who has elected a form of payment will be governed by the election made. For former participants in the MEEI sub-plan:

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	The death benefit payable to the beneficiary is equal to 50% of the deceased participant's accrued benefit under the 50% joint-and-survivor form of payment, but in no event, less than the value of the participant's cash balance account. This benefit is payable at the participant's earliest possible retirement age and is reduced for early commencement. For all other employees: Cash Balance Account Annuity not less than the Special Minimum Benefit, if applicable, determined using beneficiary's age at birthday nearest the date benefits will commence.
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Other Plan Provisions															
Normal Form of Payment	The normal form of retirement benefit for employees who are married shall be the actuarially reduced benefit provided under a 50% contingent annuitant pension, unless an employee elects an optional form of payment. The normal form of payment for single employees is the single life annuity.														
Optional Forms of Payment	The optional forms of payment include the 50%, 66-2/3%, 75% and 100% contingent annuitant option, a life annuity option for married participants, a 10, 15 or 20 year certain and continuous option, a 10, 15 or 20 year certain option and a lump sum option.														
Actuarial Equivalence	For former participants in the UH sub-plan: The actuarial equivalence factor used to convert the single life annuity into an optional form is calculated using the following: <table data-bbox="560 814 1414 1562"> <thead> <tr> <th data-bbox="560 814 873 842"><i>Payment Form</i></th><th data-bbox="873 814 1414 877"><i>Percentage of Accrued Benefit (Determined by rounding to the nearest month)</i></th></tr> </thead> <tbody> <tr> <td data-bbox="560 898 873 926">Joint and Survivor Annuity</td><td data-bbox="873 898 1414 989">92% plus (or minus) 1/24th of 1% for each month by which spouse is older (or younger) than the Participant</td></tr> <tr> <td data-bbox="560 1010 873 1037">50% Contingent Annuity</td><td data-bbox="873 1010 1414 1100">92% plus (or minus) 1/24th of 1% for each month by which spouse is older (or younger) than the Participant</td></tr> <tr> <td data-bbox="560 1121 873 1148">66-2/3% Contingent Annuity</td><td data-bbox="873 1121 1414 1211">89% plus (or minus) 1/18th of 1% for each month by which spouse is older (or younger) than the Participant</td></tr> <tr> <td data-bbox="560 1232 873 1260">75% Contingent Annuity</td><td data-bbox="873 1232 1414 1323">87.5% plus (or minus) 1/16th of 1% for each month by which spouse is older (or younger) than the Participant</td></tr> <tr> <td data-bbox="560 1344 873 1371">100% Contingent Annuity</td><td data-bbox="873 1344 1414 1434">83% plus (or minus) 1/12th of 1% for each month by which spouse is older (or younger) than the Participant</td></tr> <tr> <td data-bbox="560 1455 873 1518">Ten year Certain and Life Annuity</td><td data-bbox="873 1455 1414 1562">93.3% plus 1/80th of 1% for each month by which the date on which benefits commence precedes the Participant's Normal Retirement Date</td></tr> </tbody> </table> For former participants in the MEEI sub-plan: The Cash Balance Account and Match Benefit are converted to the annuity payment forms using the mortality table described in Revenue Ruling 2001-62 and the annual yield on 30-year Treasury Securities for	<i>Payment Form</i>	<i>Percentage of Accrued Benefit (Determined by rounding to the nearest month)</i>	Joint and Survivor Annuity	92% plus (or minus) 1/24 th of 1% for each month by which spouse is older (or younger) than the Participant	50% Contingent Annuity	92% plus (or minus) 1/24 th of 1% for each month by which spouse is older (or younger) than the Participant	66-2/3% Contingent Annuity	89% plus (or minus) 1/18 th of 1% for each month by which spouse is older (or younger) than the Participant	75% Contingent Annuity	87.5% plus (or minus) 1/16 th of 1% for each month by which spouse is older (or younger) than the Participant	100% Contingent Annuity	83% plus (or minus) 1/12 th of 1% for each month by which spouse is older (or younger) than the Participant	Ten year Certain and Life Annuity	93.3% plus 1/80 th of 1% for each month by which the date on which benefits commence precedes the Participant's Normal Retirement Date
<i>Payment Form</i>	<i>Percentage of Accrued Benefit (Determined by rounding to the nearest month)</i>														
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	the month of August preceding the plan year in which the conversion is made. The Frozen Final Average Benefit and Background Benefit are converted to a lump sum using the mortality assumptions prescribed under Section 417(e)(3)(B) of the Internal Revenue Code and the applicable interest rate described under Section 417(e)(3)(C) of the Internal Revenue Code for the month of August preceding the plan year in which the conversion was made. For BWH and BWPO employees: For balances earned prior to 2017 for all participants other than BWH nurses and for balances earned prior to 8/15/2019 for BWH nurses, the actuarial equivalence factor is calculated using a 7.50% interest rate and the 1951 GAM Projected to 1960 Mortality Table set back two years for participants and 1951 GAM Projected to 1960 Mortality Table set back three years for beneficiaries. For balances earned post-2016 for all participants other than BWH nurses, and for balances earned after 8/15/2019 for BWH nurses, the interest used is 5.0% and the mortality used is the Applicable Mortality table established by the IRS under 417(e)(3) in effect the 2019 Plan Year for BWH nurses and for the current Plan Year for all other participants. These factors are used to convert cash balance accounts to an annuity and to convert from the normal form of payment to any optional form. For all other employees: For all balances for prior plan participants and for balances earned prior to 2017, for all other participants: The actuarial equivalence factor is calculated using a 7.50% interest rate and the 1951 GAM Projected to 1960 Mortality Table set back two years for participants and 1951 GAM Projected to 1960 Mortality Table set back three years for beneficiaries. These factors are used to convert cash balance accounts accrued before 2009 to an annuity and to convert from the normal form of payment to any optional form. For Post 2008 Cash Balance Accruals, the Applicable Mortality table established by the IRS under 417(e)(3) in effect for the Plan Year is used to convert the cash balance account to an annuity. For balances earned post-2016 for non-prior plan participants the interest used is 5.0% and the mortality used is Applicable Mortality table established by the IRS under 417(e)(3) in effect for the Plan Year. These factors are used to convert the account balance to an
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	annuity and to convert from the normal form of payment to all optional forms.
Limits on benefits and pay	All benefits and pay for any calendar year may not exceed the maximum limitations for that year as defined in the Internal Revenue Code. The plan provides for increasing the dollar limits automatically as such changes become effective. Increases in the dollar limits are assumed for determining pension cost.

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Future Plan Changes

Willis Towers Watson is not aware of any significant benefits required to be valued that were not.

Changes in Benefits Valued Since Prior Year

There have been no changes in benefits valued since the prior year.

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Plan Provisions for CDH participants

Plan Provisions	
Status of Plan	For all participants except those who are members of the MNA and VNA unions, pay and service were frozen as of January 2, 2010. The plan is closed to new entrants effective February 6, 2012 and February 16, 2012 for members of the MNA and VNA unions, respectively.
Effective Date	July 1, 1976, as restated July 1, 2010
Eligible Employees	Any member in the plan prior to July 1, 1985 and not otherwise excluded is a member in this plan on July 1, 1987. Otherwise, each employee becomes a member on the first day of the month coincident with or next following the completion of one year of service and attainment of age 21 provided such member elects to make contributions to the plan.
Definitions	
Credited Service	Total years and months of service as a contributing member under this plan and the prior plan of the employer including disability credited service.
Vesting Service	An employee's period of employment with the employer commencing on the date he/she first performs an hour of service and ending on the employee's "date of severance" which shall be the earlier of the date of his/her termination, retirement or death or the first anniversary of his/her absence for any other reason. Vesting Service also includes a period of severance of less than twelve months.
Pensionable Earnings	Base pay, overtime, shift differential and weekend bonuses paid in a calendar year plus any pre-tax contributions made by the employee to a plan maintained by the employer.
Final Average Earnings	The highest average compensation for the 5 consecutive calendar years as a contributing member within 10 years immediately preceding the date of determination.

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Social Security Average Earnings	The average of the maximum amount of wages subject to Social Security taxes (the "wage base") for the thirty-five-year period ending with the year in which the member attains Social Security Retirement Age. In determining the member's Social Security Average earnings in a plan year, the wage base in effect for the calendar year beginning prior to the first day of the plan year shall be deemed to be the wage base for such a plan year. Notwithstanding the foregoing, if the member is retiring on or after his/her normal retirement date, the wage base in effect for the plan year in which his/her normal retirement date occurs shall be assumed to continue in determining such average. If a member terminates employment prior to his/her normal retirement date, the wage base in effect for the plan year in which his/her termination occurs shall be assumed to continue in determining such average.
Normal Retirement Date (NRD)	First day of the month coincident with or next following the attainment of age 65.
Normal Retirement Benefit	The sum of (a), (b) and (c) where: a. is 1.3% of Final Average Earnings multiplied by years of Credited Service; b. is .5% of Final Average Earnings in excess of \$9,000 multiplied by years of Credited Service up to July 1, 1987 not to exceed 25 years and; c. is .5% of Final Average Earnings in excess of Social Security Average Earnings multiplied by the lesser of Credited Service after July 1, 1987 or the number of years by which 25 exceeds the years of Credited Service up to July 1, 1987.
Eligibility for Benefit	
Normal retirement	Retirement on NRD.
Early retirement	Retirement before NRD and on or after the attainment of age 55 and three years of Vesting Service.
Postponed retirement	Retirement after NRD.

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Deferred vested	Termination for reasons other than death or retirement after meeting the following criteria: Benefit attributable to employee contributions is fully vested at all times Benefit attributable to employer contributions is 100% vested for participants before 7/1/1987. All other members are 20% vested after completion of three years of vesting service increasing 20% for each additional year thereafter to 100% after 7 years of vesting service.
Preretirement death benefit	Death while eligible for normal, early, postponed or deferred vested retirement.
Benefits Paid Upon the Following Events	
Normal retirement	Normal retirement benefit determined as of NRD
Early retirement	If applicable, normal retirement benefits reduced by 6-2/3% for each of the first 5 years and 3-1/3% for each of the subsequent 5 years that benefit commencement precedes Normal Retirement Date. For members with 25 years of Credited Service, normal retirement benefits reduced 6-2/3% for each of the first 5 years and 3-1/3% for each of the subsequent 2 years that benefit commencement precedes age 62.
Termination with deferred vested benefits	Normal retirement benefit payable at NRD or, at the participant's election, a reduced benefit payable as early as age 55 if completed 3 or more years of vesting service prior to termination. The benefit would be reduced as if for early retirement.

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Preretirement death	<u>Unmarried Member</u> Member's accumulated contributions with interest payable to designated beneficiary. <u>Married Member</u> If a married member dies before the earlier of attaining age 55 and becoming vested in any portion of the employer derived benefit, the surviving spouse is eligible to receive a refund of the member's accumulated contributions with interest or an actuarially equivalent single life annuity payable to the spouse. If a married member dies after the earlier of attaining age 55 and becoming vested in any portion of the employer derived benefit, the surviving spouse will receive the survivor portion of an annuity calculated as if the member has terminated employment on the day before his/her death and elected the 66 2/3% contingent annuitant option with 120 months guaranteed payable at the member's Normal Retirement Date. At the election of the spouse, the benefit may be payable on the first day of any month following the member's death. If payments commence on or after the member's 55th birthday, no reduction for early commencement is applied. If payments commence prior to the member's 55th birthday, the benefit is actuarially reduced to reflect early commencement.
Death Benefit Guarantee	If the total sum of all benefits paid to the member and a surviving spouse or beneficiary is less than the member's accumulated contributions with interest, a residual death benefit payment will be made equal to the member's accumulated contributions with interest over the total death benefits paid to the member and surviving spouse or beneficiary.

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Other Plan Provisions	
Optional forms of payment	The optional forms of payment include the 66-2/3% and 75% contingent annuitant option, a life annuity with 36 monthly payments guaranteed option, 66 2/3% contingent annuitant option with 120 months guaranteed, a 10 or 15 year certain and continuous option, non-refund life annuity and full cash refund annuity.
Actuarial equivalence	All optional forms are adjusted from the normal form of payment using actuarial equivalence factors based on interest assumption of 9.5% compounded annually and the 1983 Group Annuity Mortality Table projected to 1988 by scale H assuming all male employees and beneficiaries and reducing the ages of employees and beneficiaries by four years.
Mandatory Employee Contributions	1.5% of Annual Earnings
Withdrawal of Employee Contributions with Interest	A member may, at any time, request a withdrawal of accumulated member contributions with interest. The Normal Retirement Benefit is reduced by the actuarial equivalent of the accumulated contributions with interest.
Future Plan Changes	
Willis Towers Watson is not aware of any significant benefits required to be valued that were not.	
Changes in Benefits Valued Since Prior Year	
There have been no changes in benefits valued since the prior year.	

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Plan Provisions for NCH participants

Plan Provisions	
Effective Date	October 1, 1973. Amended and restated effective as of October 1, 2008.
Status of Plan	Frozen Plan as of September 30, 2006.
Covered Employees	Each person employed by the Nantucket Cottage Hospital shall be eligible to participate in the plan on the October 1 or April 1 coincident with or next following the date on which he has both: a. Completed one year of participation service; and b. Attained the age of 21 An employee completes a year of participation service if he completes 1,000 hours in the 12-month period following his date of hire or in any subsequent 12-month period beginning on an anniversary of his date of hire. Effective September 30, 2006, no further employees shall be eligible to participate in the plan.
Participation Date	Date of becoming a covered employee
Definitions	
Vesting service	One year for each 1,000-hour plan year of employment.
Credited service	One year for each 1,875-hour plan year of employment.
Average monthly earnings	Monthly average of the highest five (5) consecutive years of total compensation, limited to IRC Section 401(a)(17) pay limitation.
Normal retirement date (NRD)	First of the month coincident with or following the later of the participant's (1) 65th birthday or (2) fifth anniversary of plan participation.
Monthly pension benefit	The greater of \$10 times years of credited service or 1% of average monthly earnings times years of credited service up to 25 years. Effective September 30, 2006, benefit accruals shall be frozen and shall not increase above the amount accrued as of September 30, 2006.

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Eligibility for Benefits	
Normal retirement	Retirement on NRD
Early retirement	Retire before NRD and on or after both attaining age 55 and completing 5 years of service.
Postponed retirement	Retirement after NRD
Vested termination	Terminate for reasons other than death or retirement after completing five years of service. Effective October 1, 2006, all plan participants are 100% vested.
Preretirement Death	Death while eligible for deferred vested, early, normal or postponed retirement benefits with a surviving spouse.
Benefits Paid Upon the Following Events	
Normal Retirement	Monthly pension benefit determined as of NRD
Early retirement	Monthly pension benefit determined as of early retirement date, reduced by 3/5 of 1% for each of the first 60 months and by 3/10 of 1% for each of the next 60 months by which commencement of benefit payments precedes the participant's normal retirement date.
Postponed retirement	Monthly pension benefit determined as of postponed retirement
Vested termination	Monthly pension benefit determined as of benefit commencement (not earlier than age 55)
Preretirement Death	The amount of death benefit payable to a surviving spouse is 50% of the benefit the participant would have received if the participant had retired on the date of his death and elected a 50% joint & survivor annuity. Upon the death of a married participant (active or terminated) who is vested in his accrued benefit but who has not attained eligibility for early retirement as of his date of death, his spouse will be entitled to receive a benefit that is actuarially equivalent to 50% of the benefit the participant would have received if he had retired at the earliest retirement age and had elected a 50% joint and survivor annuity. The pre-retirement death benefit of a participant who remains in service after his normal retirement date and who has elected a form of payment will be governed by the election made.

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Other Plan Provisions	
Forms of Payment	<i>Normal Form:</i> Actuarially equivalent 50% Joint and Survivor annuity if married on date of benefit commence; life annuity if single. <i>Optional Forms:</i> Actuarially equivalent (to life annuity): 50%, 75% or 100% Joint and Survivor annuity, 10 year certain and continuous annuity and life annuity (for married participants) Benefits are converted to the optional form of payment elected using the plan actuarial equivalence of 7-½% interest and the 1983 Group Annuity Mortality Table for males and females (50% blend).
Maximum on benefits and pay	All benefits and pay for any calendar year may not exceed the maximum limitations for that year as defined in the Internal Revenue Code.
Future Plan Changes	
Willis Towers Watson is not aware of any future plan changes which are required to be reflected.	
Changes in Benefits Valued Since Prior Year	
There have been no changes in benefits valued since the prior year.	

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Schedule SB, Line 24 Change in Actuarial Assumptions

- The assumed plan-related expenses added to the service cost were changed from \$11,050,000 for the 2021 plan year to \$11,450,000 for the 2022 plan year based on expected changes to underlying components.
- The MEEI annuity conversion bases interest rate was changed from 2.00% to 4.00%, due to changes in market conditions since the prior measurement date.
- The CDH Employee contribution interest rate was changed from 2.00% to 4.00%, due to changes in market conditions since the prior measurement date
- Retirement and termination decrements have changed to reflect experience observed in the 2022 experience study.
- CCB, BWH, and MEEI sub-plans form of payment and benefit commencement dates have changed to reflect experience observed in the 2022 experience study.
- Spouse age difference has changed from wives three years younger than husbands to beneficiaries are the same age as participants to reflect experience observed in the 2022 experience study.

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