

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 6047(e), 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
		2015
		This Form is Open to Public Inspection

Part I	Annual Report Identification Information
For calendar plan year 2015 or fiscal plan year beginning <u>07/01/2015</u> and ending <u>06/30/2016</u>	
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); or ☒ 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)

Part II	Basic Plan Information —enter all requested information
1a Name of plan <u>PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES BATTELLE MEMORIAL INSTITUTE</u>	1b Three-digit plan number (PN) ▶ <u>005</u> 1c Effective date of plan <u>07/18/1941</u>
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) <u>BATTELLE MEMORIAL INSTITUTE</u> <u>505 KING AVENUE</u> <u>ROOM A-189</u> <u>COLUMBUS, OH 43201</u>	2b Employer Identification Number (EIN) <u>31-4379427</u> 2c Plan Sponsor's telephone number <u>614-424-7104</u> 2d Business code (see instructions) <u>541990</u>

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	<u>Filed with authorized/valid electronic signature.</u>	<u>04/18/2017</u>	<u>VIDA BOWEN</u>
	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
Preparer's name (including firm name, if applicable) and address (include room or suite number)			Preparer's telephone number

3a Plan administrator's name and address ☒ Same as Plan Sponsor	3b Administrator's EIN 3c Administrator's telephone number <div style="background-color: #cccccc; height: 40px; width: 100%;"></div>
4 If the name and/or EIN of the plan sponsor has changed since the last return/report filed for this plan, enter the name, EIN and the plan number from the last return/report: a Sponsor's name	4b EIN 4c PN
5 Total number of participants at the beginning of the plan year	5 7249
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d).	
a(1) Total number of active participants at the beginning of the plan year.....	6a(1) 3560
a(2) Total number of active participants at the end of the plan year	6a(2) 3636
b Retired or separated participants receiving benefits.....	6b 2333
c Other retired or separated participants entitled to future benefits.....	6c 1226
d Subtotal. Add lines 6a(2) , 6b , and 6c	6d 7195
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.....	6e 242
f Total. Add lines 6d and 6e	6f 7437
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	6g
h Number of participants that terminated employment during the plan year with accrued benefits that were less than 100% vested	6h 40
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: 1A 3F 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) ☐ 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)
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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 2015 Form M-1 annual report. If the plan was not required to file the 2015 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 _____

<div>SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation</div>	<div>Single-Employer Defined Benefit Plan Actuarial Information</div> <div>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).</div> <div>File as an attachment to Form 5500 or 5500-SF.</div>	<div>OMB No. 1210-0110</div> <div>2015</div> <div>This Form is Open to Public Inspection</div>
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For calendar plan year 2015 or fiscal plan year beginning 07/01/2015 and ending 06/30/2016	
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 PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES BATTELLE MEMORIAL INSTITUTE	B Three-digit plan number (PN) 005
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF BATTELLE MEMORIAL INSTITUTE	D Employer Identification Number (EIN) 31-4379427
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 07 Day 01 Year 2015			
2 Assets:			
a Market value	2a	1327327403	
b Actuarial value	2b	1304660138	
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	2526	575424347	575424347
b For terminated vested participants	1207	94209522	94209522
c For active participants	3560	457460986	467457981
d Total	7293	1127094855	1137091850
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	6.32%	
6 Target normal cost	6	27383053	

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.

<div>SIGN HERE</div>	<div>Signature of actuary</div> <div>CHRISTOPHER D. KLUDY, FSA</div> <div>Type or print name of actuary</div> <div>MERCER</div> <div>Firm name</div> <div>325 JOHN H. MCCONNELL BLVD, STE 350 COLUMBUS, OH 43215-7644</div> <div>Address of the firm</div>	<div>Date</div> <div>14-06018</div> <div>Most recent enrollment number</div> <div>614-227-5500</div> <div>Telephone number (including area code)</div>
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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)		85836054
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)		85836054
10	Interest on line 9 using prior year's actual return of <u>4.25</u> %		3648032
11	Prior year's excess contributions to be added to prefunding balance:		
a	Present value of excess contributions (line 38a from prior year)		40240470
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>6.54</u> %		2631727
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		42872197
d	Portion of (c) to be added to prefunding balance		42872197
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)	0	132356283

Part III Funding Percentages			
14	Funding target attainment percentage	14	103.09 %
15	Adjusted funding target attainment percentage	15	114.73 %
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	102.15 %
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
11/13/2015	4375000		09/29/2016	8959872	
12/17/2015	4375000				
01/29/2016	4375000				
02/16/2016	4375000				
03/21/2016	4375000				
04/15/2016	4375000				
			Totals ►	18(b)	35209872
				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: 4.72 %	2nd segment: 6.11 %	3rd segment: 6.81 %	☐ N/A, full yield curve used
b Applicable month (enter code).....				21b 4
22 Weighted average retirement age				22 63
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 Is the plan required to provide a Schedule of Active Participants? 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	
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	
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 6)	31a	27383053										
b Excess assets, if applicable, but not greater than line 31a	31b	27383053										
32 Amortization installments:	<table border="1"> <thead> <tr> <th></th> <th>Outstanding Balance</th> <th>Installment</th> </tr> </thead> <tbody> <tr> <td>a Net shortfall amortization installment</td> <td></td> <td></td> </tr> <tr> <td>b Waiver amortization installment</td> <td></td> <td></td> </tr> </tbody> </table>				Outstanding Balance	Installment	a Net shortfall amortization installment			b Waiver amortization installment		
	Outstanding Balance	Installment										
a Net shortfall amortization installment												
b Waiver amortization installment												
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											
		Carryover balance	Prefunding balance									
35 Balances elected for use to offset funding requirement.....			Total balance									
36 Additional cash requirement (line 34 minus line 35)	36											
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	33617321										
38 Present value of excess contributions for current year (see instructions)												
a Total (excess, if any, of line 37 over line 36)	38a	33617321										
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b											
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39											
40 Unpaid minimum required contributions for all years.....	40											

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected	☐ 2 plus 7 years ☐ 15 years		
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☒ 2011		
42 Amount of acceleration adjustment	42		
43 Excess installment acceleration amount to be carried over to future plan years	43		

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
		2015
		This Form is Open to Public Inspection.

For calendar plan year 2015 or fiscal plan year beginning 07/01/2015 and ending 06/30/2016

A Name of plan PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES BATTELLE MEMORIAL INSTITUTE	B Three-digit plan number (PN) ▶ 005
C Plan sponsor's name as shown on line 2a of Form 5500 BATTELLE MEMORIAL INSTITUTE	D Employer Identification Number (EIN) 31-4379427

Part I Service Provider Information (see instructions)

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

1 Information on Persons Receiving Only Eligible Indirect Compensation

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

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

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
ALTRINSIC GLOBAL ADVISORS, LLC

30-0016268

(b) Enter name and EIN or address of person who provided you disclosure on eligible indirect compensation
GCM CUSTOMIZED FUND INV GROUP L.P.

80-0952472

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
GOLDMAN SACHS ASSET MANAGEMENT, LP

13-3575636

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

74-3130888

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

HARBOURVEST VIII-BUYOUT ASSOC LP

51-0578242

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

CVI CREDIT VALUE FUND

27-2015775

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

HARBOURVEST VIII-MEZZANINE ASSOCIAT

34-2063496

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

WESTERN ASSET MANAGEMENT COMPANY

385 EAST COLORADO BLVD
PASADENA, CA 91101

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

BLACK CREEK INVESTMENT MANAGEMENT

123 FRONT STREET WEST, SUITE 1200
TORONTO, ONTARIO M5J 2M2 CA

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

METLIFE CORE PROPERTY FUND

10 PARK AVENUE
MORRISTOWN, NJ 07960

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

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

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

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

MARATHON-LONDON INTERNATIONAL FUND

22-3321401

(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?
51 52 71	NONE	615860	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

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

RIVER ROAD ASSET MGMT

43-2076925

(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?
51 52 68	NONE	486884	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

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

POLARIS CAPITAL MANAGEMENT LLC

121 HIGH STREET
BOSTON, MA 02110

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51	NONE	411990	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)

NWQ INVESTMENT MANAGEMENT COMPANY

47-0875103

(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?
51 52	NONE	353160	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

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

MERCER

13-2834414

(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 15 17	NONE	335312	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

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

NORTHERN TRUST

36-2723087

(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 51	NONE	312251	Yes ☒ No ☐	Yes ☒ No ☐	0	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)

WILLIS TOWERS WATSON

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?
15 17	NONE	261733	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

STATE STREET GLOBAL ADVISORS

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?
51 28	NONE	247839	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

LINDSELL TRAIN LIMITED

98-1104976

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51 52	NONE	146986	Yes ☒ No ☐	Yes ☒ No ☐	0	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)

BATTELLE MEMORIAL INSTITUTE

31-4379427

(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?
14	PLAN SPONSOR	114288	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

TOWNSEND HOLDINGS LLC

45-3073569

(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?
51 28	NONE	104537	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

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

BAILLIE GIFFORD OVERSEAS, LTD.

CALTON SQUARE, 1 GREENSIDE ROW
EDINBURGH EH 4 6DF

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51 52	NONE	83921	Yes ☒ No ☐	Yes ☒ No ☐	0	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)

HUNTINGTON NATIONAL BANK

31-0966785

(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?
18	NONE	74201	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

NEXT CENTURY GROWTH INVESTORS, LLC

41-1923871

(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?
51 52 68	NONE	67027	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

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

CROWE HORWATH

35-0921680

(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?
10	NONE	48636	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)

PRUDENTIAL INSURANCE CO OF AMERICA

22-1211670

(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?
51 28	NONE	38445	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

JP MORGAN INVESTMENT MANAGEMENT

13-3200244

(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?
27 28 51	NONE	34584	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

JP MORGAN CHASE BANK

13-4994650

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51	NONE	34584	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)

GRAYDON HEAD & RITCHEY

31-0565234

(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?
29	NONE	32661	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

PARAMETRIC PORTFOLIO ASSOCIATES

20-0292745

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51	NONE	28808	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

MEADEN & MOORE, LTD.

34-1818258

(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?
10	NONE	21799	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)

JOHN CHRISTIE

31-4379427

(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?
17	EMPLOYEE OF PLAN SPONSOR	14863	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

KENT RINKER

31-4379427

(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?
17	EMPLOYEE OF PLAN SPONSOR	14863	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

LEONARD ESSEX

31-4379427

(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?
17	EMPLOYEE OF PLAN SPONSOR	14863	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)

S YOUNG

31-4379427

(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?
17	EMPLOYEE OF PLAN SPONSOR	14863	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

A CAXIDE

31-4379427

(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?
17	EMPLOYEE OF PLAN SPONSOR	14863	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

ROBERT WOODWARD

31-4379427

(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?
17	EMPLOYEE OF PLAN SPONSOR	11147	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

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:

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
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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
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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
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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
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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
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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) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	<small>OMB No. 1210-0110</small> 2015 This Form is Open to Public Inspection
For calendar plan year 2015 or fiscal plan year beginning 07/01/2015 and ending 06/30/2016		
A Name of plan PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES BATTELLE MEMORIAL INSTITUTE	B Three-digit plan number (PN) ►	005
C Plan sponsor's name as shown on line 2a of Form 5500 BATTELLE MEMORIAL INSTITUTE	D Employer Identification Number (EIN) 31-4379427	

Part I	Asset and Liability Statement		(a) Beginning of Year	(b) End of Year
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	Total noninterest-bearing cash	1a		
b	Receivables (less allowance for doubtful accounts):			
	(1) Employer contributions	1b(1)	5817780	8959872
	(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)	1320901048	1392069645
	(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	1326718828	1401029517

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		

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	1326718828	1401029517
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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)	35209872	
(B) Participants	2a(1)(B)		
(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)		35209872
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)		
(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)		
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)		
(B) Other	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		104997516
(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		140207388

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	58398017	
(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)		58398017
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)	3356260	
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)	3633153	
(4) Other	2i(4)	509269	
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		7498682
j Total expenses. Add all expense amounts in column (b) and enter total	2j		65896699

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		74310689
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) ☒ Unqualified (2) ☐ Qualified (3) ☐ Disclaimer (4) ☐ Adverse

b Did the accountant perform a limited scope audit pursuant to 29 CFR 2520.103-8 and/or 103-12(d)? ☐ Yes ☒ No

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

(1) Name: CROWE HORWATH LLP

(2) EIN: 35-0921680

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

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

Part IV Compliance Questions

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

During the plan year:

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

	Yes	No	N/A	Amount
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)		X		
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)		X		
e Was this plan covered by a fidelity bond?	X			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		
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?		X		
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?		X		
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X			
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked, and see instructions for format requirements.)		X		
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		X		
l Has the plan failed to provide any benefit when due under the plan?		X		
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)				
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.				
o Did the plan trust incur unrelated business taxable income?				
p Were in-service distributions made during the plan year?				

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year?

If "Yes," enter the amount of any plan assets that reverted to the employer this year. ☐ Yes ☒ No Amount:

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 If the plan is a defined benefit plan, is it covered under the PBGC insurance program (see ERISA section 4021)? ☒ Yes ☐ No ☐ Not determined

Part V Trust Information

6a Name of trust

6b Trust's EIN

6c Name of trustee or custodian

6d Trustee's or custodian's telephone number

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 section 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
		2015
		This Form is Open to Public Inspection.

For calendar plan year 2015 or fiscal plan year beginning 07/01/2015 and ending 06/30/2016

A Name of plan <u>PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES BATTELLE MEMORIAL INSTITUTE</u>	B Three-digit plan number (PN) ▶ <u>005</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>BATTELLE MEMORIAL INSTITUTE</u>	D Employer Identification Number (EIN) <u>31-4379427</u>

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

1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions.....	1	
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): <u>31-6423960</u>		
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	<u>28</u>

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
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9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box.	☐ Increase	☐ Decrease	☐ Both	☒ No
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Part IV	ESOPs (see instructions). If this is not a plan described under Section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.
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10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan?	☐ Yes	☐ No
11 a Does the ESOP hold any preferred stock?	☐ Yes	☐ No
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.)	☐ Yes	☐ No
12 Does the ESOP hold any stock that is not readily tradable on an established securities market?	☐ Yes	☐ No

For Paperwork Reduction Act Notice and OMB Control Numbers, see the instructions for Form 5500.

Schedule R (Form 5500) 2015
v. 150123

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that contributed more than 5% of total contributions to the plan during the plan year (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 participants on whose behalf no contributions were made by an employer as an employer of the participant for:		
	a The current year	14a	
	b The plan year immediately preceding the current plan year	14b	
	c The second preceding plan year	14c	
15	Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:		
	a The corresponding number for the plan year immediately preceding the current plan year	15a	
	b The corresponding number for the second preceding plan year	15b	
16	Information with respect to any employers who withdrew from the plan during the preceding plan year:		
	a Enter the number of employers who withdrew during the preceding plan year	16a	
	b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers	16b	
17	If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment. ☐		

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

18	If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐
19	If the total number of participants is 1,000 or more, complete lines (a) through (c)
	a Enter the percentage of plan assets held as: Stock: <u>57.4%</u> Investment-Grade Debt: <u>24.0%</u> High-Yield Debt: <u>2.7%</u> Real Estate: <u>5.4%</u> Other: <u>10.5%</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):

Part VII	IRS Compliance Questions
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20a Is the plan a 401(k) plan?	☐ Yes	☐ No
20b If "Yes," how does the 401(k) plan satisfy the nondiscrimination requirements for employee deferrals and employer matching contributions (as applicable) under sections 401(k)(3) and 401(m)(2)?	☐ Design-based safe harbor method	☐ ADP/ACP test
20c If the ADP/ACP test is used, did the 401(k) plan perform ADP/ACP testing for the plan year using the "current year testing method" for nonhighly compensated employees (Treas. Reg sections 1.401(k)-2(a)(2)(ii) and 1.401(m)-2(a)(2)(ii))?	☐ Yes	☐ No
21a Check the box to indicate the method used by the plan to satisfy the coverage requirements under section 410(b):	☐ Ratio percentage test	☐ Average benefit test
21b Does the plan satisfy the coverage and nondiscrimination tests of sections 410(b) and 401(a)(4) by combining this plan with any other plans under the permissive aggregation rules?	☐ Yes	☐ No
22a Has the plan been timely amended for all required tax law changes?	☐ Yes	☐ No ☐ N/A
22b Date the last plan amendment/restatement for the required tax law changes was adopted ____/____/____. Enter the applicable code _____. (See instructions for tax law changes and codes).		
22c If the plan sponsor is an adopter of a pre-approved master and prototype (M&P) or volume submitter plan that is subject to a favorable IRS opinion or advisory letter, enter the date of that favorable letter ____/____/____ and the letter's serial number _____.		
22d If the plan is an individually-designed plan and received a favorable determination letter from the IRS, enter the date of the plan's last favorable determination letter ____/____/____.		
23 Is the Plan maintained in a U.S. territory (i.e., Puerto Rico (if no election under ERISA section 1022(i)(2) has been made), American Samoa, Guam, the Commonwealth of the Northern Mariana Islands or the U.S. Virgin Islands)?	☐ Yes	☐ No

Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute

Employer Identification Number: 31-4379427
Plan Number: 005

Financial Statements as of and for the
Years Ended June 30, 2016 and 2015, and
Independent Auditor's Report

PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES, BATTELLE MEMORIAL INSTITUTE

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INDEPENDENT AUDITOR'S REPORT

To the Plan Administrator and
Battelle Pension Management and Investment Council
Columbus, Ohio

Report on the Financial Statements

We have audited the accompanying financial statements of the Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute (the "Plan"), which comprise the statements of net assets available for benefits as of June 30, 2016 and 2015, and the related statements of changes in net assets available for benefits for the years then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes 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.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Plan's preparation and fair presentation of the financial statements 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, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

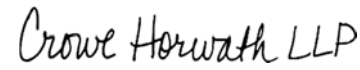
(Continued)

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial status of the Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute as of June 30, 2016 and 2015, and the changes in its financial status for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matter

Our audit was conducted for the purpose of forming an opinion on the financial statements as a whole. The information included in the 2016 supplemental Schedule H, Line 4i Schedule of Assets (Held at End of Year) is presented for purposes of additional analysis and is not a required part of the financial statements but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. Such information is the responsibility of the Plan's management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the financial statements as a whole.


Crowe Horwath LLP

Oak Brook, Illinois
April 18, 2017

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute

	(In Thousands)	
	June 30	
	<u>2016</u>	<u>2015</u>
ASSETS		
Receivable - Employer contributions	\$ 8,960	\$ 5,818
Investments (at Fair Value):		
Plan Interest in Master Trust	<u>1,392,070</u>	<u>1,320,901</u>
Total and Net Assets Available for Benefits	<u>\$ 1,401,030</u>	<u>\$ 1,326,719</u>

See accompanying notes.

STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute

	(In Thousands)	
	Year Ended June 30	
	<u>2016</u>	<u>2015</u>
Additions to Net Assets Attributed to:		
Contributions:		
Employer	\$ 35,210	\$ 46,443
Investment Income:		
Plan Interest in Master Trust	<u>104,997</u>	<u>53,950</u>
Total Additions	140,207	100,393
Deductions from Net Assets Attributed to:		
Benefits paid to participants or beneficiaries	58,398	69,824
Administrative expenses	<u>7,498</u>	<u>5,838</u>
Total Deductions	<u>65,896</u>	<u>75,662</u>
Net Increase	74,311	24,731
Net Assets Available for Benefits:		
Beginning of Year	<u>1,326,719</u>	<u>1,301,988</u>
End of Year	<u>\$ 1,401,030</u>	<u>\$ 1,326,719</u>

See accompanying notes.

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2016 AND 2015

(Dollars in thousands)

1. ORGANIZATION

The accompanying financial statements present the net assets of the Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute (“Plan”) and changes therein. The net assets of the Plan are commingled with the assets of the Employees Pension Plan of Battelle Memorial Institute and the assets of the Pension Plan of Battelle National Biodefense Institute, LLC within the Battelle Pension Trust (“Master Trust”).

The following brief description of the Plan is provided for general information purposes only. Participants should refer to the Plan document for more complete information.

General. The Plan is a defined benefit pension plan covering all U.S.-based salaried employees and eligible hourly employees of the Pacific Northwest Laboratories, Battelle Memorial Institute (“Battelle” or “Plan Sponsor”) and those group members, as defined by the Plan, who have adopted the Plan, except employees who are covered by collective bargaining agreements or by another pension plan funded by the employer. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”).

Plan Amendments. An amendment was adopted January 8, 2015. The board resolution was approved on November 13, 2014, with communications to former employees in March 2015. The amendment provides the Plan for a lump-sum payment option to certain terminated vested employees with an actuarial equivalent value less than \$125,000. The amendment also provides for a lump-sum option (as long as the actuarial equivalent value of the benefit is less than \$125,000) upon termination, retirement or benefit commencement on or after July 1, 2015.

Pension Benefits. Participants with five or more years of vested service, as defined by the Plan, are entitled to annual pension benefits beginning at the normal retirement age of 65 based upon certain formulas using years of credited service up to a maximum of 40 years and the highest 60 months of compensation. The Plan permits early retirement at ages 55 to 64. Participants may elect to receive their vested benefit as a joint and survivor annuity payable monthly from the date of retirement. The normal form of benefit is a single-life annuity payable monthly. If participants terminate before rendering five years of vesting service, they forfeit the right to receive their accumulated plan benefits. A participant is fully vested upon attainment of age 65 while in active service.

Death and Disability Benefits. If a vested participant dies before benefit payments begin, a death benefit equal to the participant’s accumulated benefits is paid to the participant’s spousal beneficiary based on certain payment options as defined by the Plan. Alternatively, the Plan provides spousal and nonspousal beneficiaries the option to elect a death benefit of 120 monthly payments commencing immediately, where each monthly payment is equal to the actuarial equivalent of the monthly payment the participant would have received at normal retirement age, or the lump-sum present value of such 120 monthly payments.

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2016 AND 2015

(Dollars in thousands)

Active participants who become totally disabled are immediately fully vested in their pension benefit under the Plan and may elect to begin receiving an annual disability retirement benefit. Alternatively, active salaried participants who become totally disabled may elect to continue to accrue benefits with their salary rate remaining the same as at the time they became disabled until normal or early retirement, at which time disabled participants begin receiving normal or early retirement benefits.

2. SUMMARY OF ACCOUNTING POLICIES

Basis of Accounting. The financial statements of the Plan have been prepared under the accrual basis of accounting.

Accounting Pronouncements. The Plan has early adopted the provisions of Accounting Standards Update (ASU) 2015-12 (Parts I and II) as of June 30, 2015. The ASU simplified disclosures related to fair value measurements and investments. The adoption of the ASU had no impact on the Statement of Net Assets Available for Benefits and changes therein. Also, the adoption of the ASU had no impact on the present value of Accumulated Plan Benefits and changes therein.

Use of Estimates. The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities; disclosure of contingent assets, liabilities, and pension obligations at the date of the financial statements; and the reported amounts of changes in net assets and pension obligations during the reporting period. Actual results could differ from those estimates.

Risks and Uncertainties. The Master Trust invests in various investment securities. Investment securities are exposed to various risks, such as interest rate, market, and credit. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the statements of net assets available for benefits.

Plan contributions are made, and the actuarial present value of accumulated plan benefits is reported, based on certain assumptions pertaining to interest rates, salary increases, and employee demographics, all of which are subject to change. Due to uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible that changes in these estimates and assumptions in the near term would be material to the financial statements.

Investment Valuation and Income Recognition. Investments are stated at fair value. Fair value of a financial instrument is the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 4 for a description of valuation methods. 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 valuation of investments is prepared by the trustee. The trustee utilizes its external pricing service to estimate the fair value of certain investments held in the Plan. The trustee uses multiple pricing vendors for the assets held in the Master Trust. In some cases, such as limited partnerships, the

**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES,
BATTELLE MEMORIAL INSTITUTE
NOTES TO FINANCIAL STATEMENTS**

AS OF AND FOR THE YEARS ENDED JUNE 30, 2016 AND 2015

(Dollars in thousands)

valuation is provided to the trustee by the applicable fund manager of the investment. The Plan's investment managers review and validate the prices utilized by the trustee to determine fair value. The Plan Sponsor receives audit reports of the trustee's operating controls and valuation processes. Management has established processes and procedures for establishment and valuation of alternative investments.

Payment of Benefits. Benefit payments to participants or beneficiaries are recorded upon distribution.

Administrative Expenses. Investment management and custodial fees; accounting fees; audit fees; and certain administrative, consulting, and legal fees are paid by the Plan and are expensed as incurred. Certain other administrative expenses not paid by the Plan are paid by the employer.

Subsequent Events. Plan management has performed an evaluation of subsequent events through April 18, 2017, which is the date the financial statements were available for issuance.

Effective July 1, 2016, an amendment was adopted which provided that a vested retiree's surviving spouse is eligible for a 100% survivor annuity regardless of whether the retiree was eligible to receive an early retirement benefit by having attained his or her early retirement date at the time of death.

Effective July 1, 2016, an amendment was adopted which provides for the participation of employees represented by the Hanford Atomic Metal Trades Council ("HAMTC") in the Plan as provided under the collective bargaining agreement between Battelle and HAMTC.

3. THE MASTER TRUST

At June 30, 2016 and 2015, the Plan had an approximate 61.9% and 58.1% interest, respectively, in the net assets available for benefits of the Master Trust. Effective October 1, 2014, net assets, interest, dividends, realized gains (losses), unrealized gains (losses), and certain administrative expenses relating to the Master Trust are allocated to the individual plans via unitized accounting with the trustee. This unitization is based on the weighted market value of the Plan's ownership in the Master Trust assets at the close of the previous month. Prior to October 1, 2014, net assets, interest, dividends, and realized gains (losses) relating to the Master Trust were allocated to the individual plans based on the weighted book value of each plan. Unrealized gains (losses) and administrative expenses relating to the Master Trust were allocated to the individual plans based on the weighted market value of each plan.

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(Dollars in thousands)

The net assets of the Master Trust as of June 30, 2016 and 2015, are as follows (in thousands):

	<u>2016</u>	<u>2015</u>
Investments:		
U.S. Government and U.S. Government Agency Bonds	\$ 675,962	\$ 541,816
Common stocks	1,016,730	889,064
Private equity funds	234,594	240,218
Commingled funds	160,242	402,698
Asset-backed securities	23	108
Mortgage-backed securities	67	77
Non-government-backed CMOs	93	188
Real estate	92,595	100,769
Cash and cash equivalents	69,990	98,388
Total Investments	<u>2,250,296</u>	<u>2,273,326</u>
Dividends and Interest Receivable	1,253	1,343
Other - Including payables from pending transactions	<u>(3,833)</u>	<u>(1,882)</u>
Net Assets	<u>\$ 2,247,716</u>	<u>\$ 2,272,787</u>

Investment income for the Master Trust for the years ended June 30, 2016 and 2015, is as follows (in thousands):

	<u>2016</u>	<u>2015</u>
Net appreciation in fair value of investments	\$ 131,075	\$ 54,478
Interest	630	4,709
Dividends	<u>28,006</u>	<u>34,966</u>
Total investment income	<u>\$ 159,711</u>	<u>\$ 94,153</u>

4. FAIR VALUE MEASUREMENTS

The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3).

Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs. The three levels of the fair value hierarchy under Topic 820 are described as follows:

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Level 1: Inputs to the valuation methodology are quoted prices (unadjusted) in active markets for identical assets or liabilities that the Plan can access at the measurement date.

Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly, such as:

- * Quoted prices for similar assets or liabilities in active markets
- * Quoted prices for identical or similar assets or liabilities in inactive markets
- * Inputs other than quoted prices that are observable for the asset or liability
- * Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

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

Level 3: Inputs that are unobservable inputs for the asset or liability.

The Plan's investment in the Master Trust is presented at fair value, which has been determined based on the fair value of the underlying investments of the Master Trust. Consideration was given to how third-party pricing was performed.

The following is a description of the valuation methodologies used by the Plan to calculate the fair value of Master Trust investments. There have been no changes in the methodologies used at June 30, 2016 and 2015:

Cash includes trust deposit accounts as well as local and foreign currencies for which fair value measurements are all based on quoted prices for similar assets or liabilities. Cash equivalents includes a money market account, for which fair value is estimated to approximate the cost basis of the deposit account balance, and a short-term investment fund, which is valued at net asset value per share as determined by the issuer.

Common stocks are valued at the closing price reported in the active market in which the individual security is traded.

U.S. Government and U.S. Government Agency (Government) bonds are valued based on yields currently available on comparable securities of issuers with similar credit ratings. When quoted prices are not available, the government security is valued under a discounted cash flow approach that maximizes observable inputs, such as current yields of similar instruments.

Asset-backed securities, mortgage-backed securities, and nongovernment-backed collateralized mortgage obligations (CMOs) are valued based on yields currently available on comparable securities of issuers with similar credit ratings.

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When quoted prices are not available for identical or similar bonds, the bond is valued under a discounted cash flow approach that maximizes observable inputs, such as current yields of similar instruments, but includes adjustments for certain risks that may not be observable, such as credit and liquidity risks.

Private real estate investments are valued at estimated fair value based on net asset value as reported by the fund managers. These funds seek growth and income through investment in commercial, residential, and industrial real estate. Funds are subject to various redemption restrictions and advance notice requirements. Redemptions for most funds are limited to once per quarter and subject to a 45-day notice requirement. In addition, circumstances may exist in which the otherwise redeemable investment may be subject to limitations, including availability of cash arising from net investment income and the sale of investments in the ordinary course of business.

Commingled funds consist of collective trust investments and one limited partnership which are valued at estimated fair value based on net asset value as reported by the fund manager. These funds invest primarily in readily marketable international securities with the objective of long-term growth. Redemption for these investments is permitted daily, with no other restrictions or notice periods.

Private equity funds are valued at net asset value or its equivalent, as reported by the fund manager. The net asset value is based on the cumulative capital account balances reported by the general partners. In some cases, this might be based on limited partnerships' audited financial statements. The allocation of the gains, losses, and expenses to the partners are based on the ownership percentage as described in the partnership agreements. These funds seek growth and income through investments in other limited partnerships, equity venture capital and other arrangements. For private equity funds classified in Level 2 of the hierarchy as of June 30, 2016, there are no significant redemption restrictions or advance notice requirements. For those classified in Level 3 of the hierarchy as of June 30, 2016, substantially all redemptions are permanently restricted until the termination of the partnership or by written consent of the general partner. The estimated time period for liquidation of these private equity funds varies from 1 to 10 years, but is subject to variability. Unfunded capital commitments to private equity funds as of June 30, 2016 and 2015 were \$33,398,271 and \$49,834,150, respectively.

The following tables set forth by level, within the fair value hierarchy, the Master Trust's assets at fair value as of June 30, 2016 and 2015 (in thousands). Classification within the fair value hierarchy table is based on the lowest level of any input that is significant to the fair value measurement:

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	Assets at Fair Value as of June 30, 2016			
	Level 1	Level 2	Level 3	Total
Cash and cash equivalents	\$ 56,855	\$ 13,135	\$ -	\$ 69,990
Government bonds	-	675,962	-	675,962
Mortgage-backed securities	-	67	-	67
Common stocks	1,013,808	2,922	-	1,016,730
Commingled funds	-	160,242	-	160,242
Private equity funds	-	62,128	172,466	234,594
Asset-backed securities	-	23	-	23
Non-government-backed CMOs	-	93	-	93
Real estate	-	-	92,595	92,595
Total Investments at Fair Value	<u>\$ 1,070,663</u>	<u>\$ 914,572</u>	<u>\$ 265,061</u>	<u>\$ 2,250,296</u>

	Assets at Fair Value as of June 30, 2015			
	Level 1	Level 2	Level 3	Total
Cash and cash equivalents	\$ 37,339	\$ 61,049	\$ -	\$ 98,388
Government bonds	-	541,816	-	541,816
Mortgage-backed securities	-	77	-	77
Common stock	889,064	-	-	889,064
Commingled funds	-	402,698	-	402,698
Private equity funds	-	61,018	179,200	240,218
Asset-backed securities	-	108	-	108
Non-government-backed CMOs	-	188	-	188
Real estate	-	-	100,769	100,769
Total Investments at Fair Value	<u>\$ 926,403</u>	<u>\$ 1,066,954</u>	<u>\$ 279,969</u>	<u>\$ 2,273,326</u>

The Plan's policy is to recognize significant transfers between levels at the actual date of the event or change in circumstances that caused the transfer. For the years ended June 30, 2016 and 2015, there were no significant transfers in between Levels 1 and 2 and no transfers in or out of Level 3.

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The following table sets forth a summary of changes in the fair value of the Master Trust's Level 3 assets for the years ended June 30, 2016 and 2015 (in thousands):

	2016		2015	
	Private Equity	Real Estate	Private Equity	Real Estate
Balance - Beginning of Year	\$ 179,200	\$ 100,769	\$ 172,517	\$ 104,496
Realized gains/(losses)	18,473	8,211	19,610	1,552
Unrealized gains/(losses) relating to assets still held at the reporting date	(10,936)	395	(7,513)	8,145
Purchases	21,535	6,734	26,571	8,263
Sales	(35,806)	(23,514)	(31,985)	(21,687)
Balance - End of Year	<u>\$ 172,466</u>	<u>\$ 92,595</u>	<u>\$ 179,200</u>	<u>\$ 100,769</u>

The amount of total gains or losses attributable to the change in unrealized gains or losses relating to assets still held at the reporting date

(10,936) 395 (7,513) 8,145

5. ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS

Accumulated plan benefits are those future periodic payments that are attributable under the Plan's provisions to the service participants have rendered as of the valuation date. Accumulated plan benefits include benefits expected to be paid to (a) retired or terminated participants or their beneficiaries, (b) beneficiaries of participants who have died, and (c) present participants or their beneficiaries.

The Plan amendment on accumulated plan benefits effective July 1, 2014 is recognized during the year in which such amendment was adopted. The actuarial present value of accumulated plan benefits is determined by an independent actuary, and is that amount that results from applying actuarial assumptions to adjust the accumulated plan benefits 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.

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The actuarial present value of accumulated plan benefits as of June 30, 2016 and 2015 is as follows (in thousands):

	<u>2016</u>	<u>2015</u>
Vested benefits:		
Participants currently receiving payments	\$ 592,605	\$ 546,961
Other participants	<u>543,409</u>	<u>494,008</u>
Total vested benefits	1,136,014	1,040,969
Nonvested benefits	<u>4,011</u>	<u>2,846</u>
Total Actuarial Present Value of Accumulated Plan Benefits	<u>\$ 1,140,025</u>	<u>\$ 1,043,815</u>

The increase in actuarial present value of accumulated plan benefits during the years ended June 30, 2016 and 2015, resulted from the following (in thousands):

	<u>2016</u>	<u>2015</u>
Actuarial Present Value of Accumulated Plan Benefits at Beginning of Fiscal Year	\$ 1,043,815	\$ 1,012,869
Changes During the Plan Year Attributable to:		
Net actuarial loss/(gain)	26,167	19,420
Plan amendment and changes in Plan provisions	319	3,576
Increase for interest due to the decrease in the discount period	78,444	75,566
Change in actuarial assumptions	49,678	2,208
Benefits paid (including lump sum amounts)	<u>(58,398)</u>	<u>(69,824)</u>
Net increase	<u>96,210</u>	<u>30,946</u>
Actuarial Present Value of Accumulated Plan Benefits at End of Fiscal Year	<u>\$ 1,140,025</u>	<u>\$ 1,043,815</u>

The significant actuarial assumptions used in the valuations as of June 30, 2016 and 2015, were as follows:

- a. Mortality: Disabled Mortality: RP-2014 generational combined annuitant and non-annuitant tables using Scale MP-2015 (2016) and Scale MP-2014 (2015). Healthy Mortality: RP 2014, generational white collar separate annuitant and non-annuitant tables, using Scale MP-2015 (2016) and Scale MP-2014 (2015).
- b. Assumed retirement rates are stratified by various age (and/or service) ranges, with 100% assumed to be retired by age 70.
- c. Assumed turnover rates are based on plan experience, by various age categories.

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- d. Interest rate of 7.25% (2016) and 7.75% (2015).

The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Were the Plan to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated plan benefits.

The change in actuarial assumptions pertains to the change of assumed rate of return from 7.75% in 2015 to 7.25% in 2016, and the actuarial mortality scale changed as indicated above.

6. FUNDING POLICY

The employer makes contributions to the Plan, which are expected to be sufficient to provide the defined benefits of the Plan. Such contributions, as determined by actuaries, include provisions for normal costs as they accrue and unfunded prior service cost over a maximum of 30 years. Minimum funding requirements as set forth in ERISA have been met for the years ended June 30, 2016 and 2015.

7. PLAN TERMINATION

Although it has not expressed any intention to do so, Battelle has the right under the Plan to discontinue its contributions at any time and terminate the Plan subject to the provisions set forth in ERISA. Should the Plan be terminated at some future time, all participants become fully vested in benefits earned as of the termination date.

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. Benefits of any participant who retired three years or more prior to the date of termination or who could have retired as of such date (in the normal form of annuity) without in either case giving effect to any increase in benefits, which has been put into effect by a Plan amendment within five years prior to such date.
- b. Other vested benefits insured by the Pension Benefit Guaranty Corporation (PBGC) up to the applicable limitations discussed below.
- c. All other vested benefits that are 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.

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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 level of benefits guaranteed by the PBGC.

8. EXEMPT PARTY-IN-INTEREST TRANSACTIONS

In 2016 and 2015, the shares of the short-term investment fund (a collective trust) held by the Master Trust were managed by The Northern Trust Company (Northern Trust). Northern Trust was the trustee as defined by the Plan, and therefore, these transactions qualify as party in interest. In addition, certain Plan investments were held in companies that also serve as portfolio managers, and these transactions also qualify as party in interest. The Plan Sponsor was reimbursed for certain administrative expenses from the Plan.

9. FEDERAL INCOME TAX STATUS

The Internal Revenue Service (IRS) has determined and informed Battelle by a letter dated April 27, 2010, that the Plan, as amended, and related Master Trust are designed in accordance with applicable sections of the Internal Revenue Code (IRC). The Plan has been amended since receiving the determination letter; however, Plan management believes that the Plan is currently designed and operated in compliance with the applicable requirements of the IRC, and the Plan and related trust continue to be tax exempt. Therefore, no provision for income taxes has been included in the Plan's financial statements.

GAAP requires Plan management to evaluate tax positions taken by the Plan and recognize a tax liability if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan Administrator has analyzed the tax positions taken by the Plan and has concluded that as of June 30, 2016 and 2015, there are no uncertain positions taken or expected to be taken that would require recognition of a liability or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

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(Dollars in thousands)

10. DERIVATIVE FINANCIAL INSTRUMENTS

There are derivative contracts included with the cash equivalents of the assets of the Master Trust as of June 30, 2016 and 2015. These derivatives are futures that are recorded at fair value. These derivatives are used for the purpose of gaining market exposure.

Derivative Assets at Year-End	June 30, 2016		
	Notional Value	Last Days Mark	Number of Contracts
	(in thousands)	(in thousands)	
Type of Exposure:			
Fut Sep 16 Cbt Ul T-Bonds	\$ 5,219	\$ (25)	28
Fut Sep 16 Cdn Dollar	385	-	5
Fut Sep 16 Emini S&P 500	15,049	168	144
Fut Sep 16 Iceus Sm Rus2	1,721	27	15
Fut Sep 16 Icus Msci Eaf	4,441	65	55
Fut Sep 16 Icus Msci Emg	1,211	13	29
Fut Sep 16 Immemini Mdcg	2,389	46	16
Fut Sep 16 Me S&P Can 60	376	1	3
Fut Sep 16 U.S. T-Bonds	172	(1)	1
	<u>\$ 30,963</u>	<u>\$ 294</u>	

During the year ended June 30, 2016, there was a net realized gain of \$2,087 and a last day's mark of \$294.

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(Dollars in thousands)

Derivative Assets at Year-End	June 30, 2015		
	Notional Value (in thousands)	Last Days Mark (in thousands)	Number of Contracts
Type of Exposure:			
Fut Sep 15 Cbt Ul T-Bonds	\$ 3,852	\$ (59)	25
Fut Sep 15 Cdn Dollar	480	(4)	6
Fut Sep 15 Emini S&P 500	28,042	225	273
Fut Sep 15 Iceus Sm Rus2	3,126	3	25
Fut Sep 15 Icus Msci Eaf	9,446	74	103
Fut Sep 15 Icus Msci Emg	2,926	(2)	61
Fut Sep 15 Immemini Mdcg	4,494	15	30
Fut Sep 15 Me S&P Can 60	676	-	5
Fut Sep 15 U.S. T-Bonds	<u>603</u>	<u>(8)</u>	4
	<u>\$ 53,645</u>	<u>\$ 244</u>	

During the year ended June 30, 2015, there was a net realized gain of \$498 and a last day's mark of \$244.

At the time Battelle enters into a futures contract, it is generally required to make a margin deposit with the custodian of a specified amount of liquid assets. Subsequent payments are made or received by the investment fund equal to the daily change in the contract value and are recorded as variation margin receivable or payable and offset in unrealized gains or losses. Futures are marked to market each day, with the change in value reflected in the unrealized gains and losses.

The use of futures contracts involves, to varying degrees, elements of market and counterparty risk, which may exceed the amounts recognized in the statements of net assets available for benefits. Futures contracts present the following risks: imperfect correlation between the change in market value of a fund's securities and the price of futures contracts; the possible inability to close a futures contract when desired; losses due to unanticipated market movements, which potentially are unlimited; and the possible inability of Battelle to correctly predict the direction of securities prices, interest rates, currency exchange rates, and other economic factors. Futures markets are highly volatile, and the use of futures may increase the volatility of an investment's value. As a result of low margin deposits normally required in futures trading, a relatively small price movement in a futures contract may result in substantial losses to Battelle. Futures contracts may be illiquid, and exchanges may limit fluctuations in futures contract prices during a single day. All of the future contracts are traded on a U.S. exchange.

SCHEDULE OF ASSETS (HELD AT END OF YEAR)
Form 5500, Schedule H, Part IV, Line 4i

Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute

EIN: 31-4379427
Plan Number 005

June 30, 2016

(a)	(b) Identity of Issue, Borrower, Lessor, or Similar Party	(c) Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(d) Cost	(e) Current Value
*	Northern Trust Company	Plan Interest in Master Trust	\$ 1,180,927	\$ 1,392,070
	Total Investments		<u>\$ 1,180,927</u>	<u>\$ 1,392,070</u>

* Party-in-interest to the Plan.

Schedule SB, Part V – Summary of Plan Provisions

Summary of Major Plan Provisions

Effective date and plan year	Original plan: July 18, 1941 Restated plan: July 1, 2008 Plan year: July 1 through June 30
Status of the plan	The plan has ongoing benefit accruals and new employees are eligible to participate in the plan once they satisfy the participation requirements.
Significant events that occurred during the year	Added a lump sum form of payment for participants who terminate employment on or after July 1, 2015 with a present value of accrued benefits less than \$125,000
Definitions	
• Covered employees	Any Employee who is employed by a Participating Employer and who is not classified as one or more of the following: (1) a member of the Board of Directors unless member is also an Employee; (2) an employee who is covered by a collective bargaining agreement unless such agreement provides for participation in the Plan; (3) an individual employed outside the United States by a foreign-based subsidiary or division of Employer; (4) an employee who is covered by any other qualified defined benefit pension plan funded by Employer; (5) an employee of any Battelle Affiliate that has not adopted this Plan for its employees; (6) a Leased Employee; (7) an independent contractor; (8) effective on and after February 13, 2003, an individual employed as a telephone interviewer; (9) interns and co-op students; and (10) Limited Term Employees.
• Participation	Participation commences on the date of employment for employees other than hourly employees. Hourly employees participate after completing 1,000 hours of service.
• Employee contributions	None.
• Credited service for vesting	A participant receives one year of Credited Service for Vesting for every plan year he is credited with at least 1,000 hours of service or a fraction of a year if credited with at least 500 hours of service.
• Credited service for benefit accrual	A participant receives one year of Credited Service for Benefit Accrual for every plan year he is credited with at least 2,080 hours, or a fraction of a year if credited with less than 2,080 hours. Note that hourly employees must complete a minimum of 1,000 hours of service to receive any credit.
• Monthly compensation	Monthly equivalent of compensation as if the employee worked full-time. Effective July 1, 2001, incentive compensation and overtime are counted as plan compensation. However, compensation is limited by IRC 401(a)(17) annually (indexed for future years).
• Final average earnings	The average of the highest 60 consecutive months of compensation.

Schedule SB, Part V – Summary of Plan Provisions

• Accrued benefit	The normal retirement benefit based on Credited Service for Benefit Accrual and Final Average Compensation on the date of determination.
Normal retirement	
• Eligibility	Attainment of age 65
• Benefit	<p>The larger of i. and ii.</p> <p>i. 1.2% of Final Average Compensation times Credited Service for Benefit Accrual (maximum of 40 years)</p> <p>ii. The sum of a. plus b.</p> <p>a. <u>For service after July 1, 2012</u> – 1.2% of Final Average Compensation times Credited Service for Benefit Accrual</p> <p>b. <u>For service prior to July 1, 2012*</u> – The larger of 1. and 2.</p> <p>1. 1.6% of Final Average Compensation multiplied by Credited Service for Benefit Accrual, and</p> <p>2. Accrued Retirement Benefit as of June 30, 1994, plus 1.6% of Final Average Compensation multiplied by Credited Service for Benefit Accrual after June 30, 1994.</p> <p>Credited Service for Benefit Accrual for (a) and (b) cannot exceed 40 years.</p> <p>*For any Member who has attained age 50 and completed at least 15 years of Credited Service for Vesting as of June 30, 2012, benefits under (b.1.) and (b.2.) use Final Average Compensation as of their date of termination. For any other Member not meeting these criteria, benefits under (b.1.) and (b.2.) use Final Average Compensation on June 30, 2012</p> <p>Benefits attributable to service prior to July 1, 2009 under (b) are increased by 9.76% to account for the change in normal form of payment from 10 years Certain and Life to Single Life Annuity.</p>
Early retirement	
• Eligibility	The later of attainment of age 55 and the completion of 10 years of Credited Service for Vesting.
• Benefit attributable to credited service for benefit accrual earned prior to July 1, 2009	The accrued benefit is reduced 1/2% for each month the early retirement date precedes age 60.

Schedule SB, Part V – Summary of Plan Provisions

• Benefit attributable to credited service for benefit accrual earned after July 1, 2009	Normal retirement benefit, actuarially reduced based on the RP 2000 white collar mortality table, projected to 2025 using scale AA, and blended 60% male and 40% female and 7% interest compounded annually.
Late retirement	
• Eligibility	Actual retirement after age 65.
• Benefit	The benefit reflects Credited Service for Benefit Accrual and Monthly Compensation earned after age 65.
Deferred vested	
• Eligibility	100% after 5 years of Credited Service for Vesting; no vesting prior to completion of 5 years of Credited Services for Vesting. Participant is 100% vested on normal retirement date.
• Benefit	Accrued Retirement Benefit payable at age 65 or payable at or after age 55 and reduced for each month benefit commencement date precedes age 65.
Disability	
• Eligibility	Only employees other than hourly employees are eligible for special disability benefits. Total and permanent disability is defined in the Plan.
• Benefit	A monthly benefit equal to the regular retirement benefit with Monthly Compensation and Credited Service for Benefit Accrual determined at retirement as if the participant were employed on the same basis as immediately before disablement. This benefit will be reduced for early retirement, if applicable.
Pre-retirement death	
• Eligibility	Eligible if employee has a vested benefit.
• Benefit prior to early retirement	For death after vesting but prior to early retirement eligibility the benefit is equal to the vested Accrued Retirement Benefit payable at the earliest date the participant could have retired. The amount is reduced as for early retirement and is payable as a 50% joint and survivor annuity (benefits are payable for 120 months if there is no surviving spouse).
• Benefit after early retirement eligible	For death after early retirement eligibility the benefit is calculated as if the participant retired the day before death and elected a 100% joint and survivor annuity (benefits are payable for 120 months if there is no surviving spouse).
Form of benefits	
• Automatic form for unmarried participants	Single Life Annuity
• Automatic form for married participants	50% Joint & Survivor Annuity

Schedule SB, Part V – Summary of Plan Provisions

• Optional forms	50%, 75%, or 100% joint and survivor annuity, life annuity with 5 or 10 years of payments certain to be made. Additional options include a guaranteed number of payments of any duration with or without a life annuity. Participants who terminate employment on or after July 1, 2015 with a present value of accrued benefits less than \$125,000 can elect to receive their benefit in the form of a lump sum.
• Optional form conversion factors	Optional forms of benefit, other than the lump sum, are determined using the RP 2000 white collar mortality table, projected to 2025 using Scale AA, and blended 60% male and 40% female and 7% interest compounded annually. Lump sums are determined using 417(e) interest and mortality.
Miscellaneous	
• Maximum compensation	Compensation for any 12-month period used to determine accrued benefits may not exceed the limits in IRC Section 401(a)(17) for the calendar year in which the 12-month period begins. This limit is indexed annually. For 2015, the limit is \$265,000.
• Maximum benefits	Annual benefits may not exceed the limits in IRC Section 415. This limit is indexed annually. For 2015, the limit is \$210,000.

Benefits Included or Excluded

Unless noted below, all benefits provided by the plan are included in this valuation.

- **Most recent plan amendments included:** The lump sum amendment signed January 8, 2015 for ongoing lump sum distributions payable to participants whose present value is under \$125,000 is included because it was adopted by the valuation date and is effective by the end of the plan year.
- **Plan amendments excluded:** None.
- **Late retirement increases:**
 - *Active participants:* The plan provides benefit suspension notices to participants who work beyond normal retirement; therefore, late retirement actuarial increases only apply to participants who defer retirement beyond age 70½. This valuation does not currently include increases for current participants over age 70 as it was determined the effect of doing so would be minimal. This will be reevaluated annually.
 - *Deferred vested participants:* Current deferred vested participants over normal retirement age are valued including the late retirement actuarial increase.
- **Internal Revenue Code limitations:** The limitations of Internal Revenue Code Section 415(b) and 401(a)(17) have been incorporated into our calculations.
- **IRC Section 416 rules for top-heavy plans:** We did not test whether this plan is top-heavy (when the present value of benefits for key employees equals or exceeds 60% of the present value for all participants). Therefore, the funding target and target normal cost do not reflect any liability for top-heavy benefit accruals.

Schedule SB, Part V – Summary of Plan Provisions

Plan Provisions Specific to Funding

Additional Benefits Included or Excluded

- **IRC Section 436 benefit restrictions:**
 - *Unpredictable contingent event benefits:* This valuation excludes restricted contingent event benefits that occurred before the valuation date but includes contingent event benefits which are expected to occur on or after the valuation date regardless of anticipated funding-based limitations.
 - *Plan amendments:* See above.
 - *Prohibited payments:* The plan does not have any limitations on prohibited benefits prior to the valuation date.
 - *Benefit accruals:* The plan's funding target does not reflect any limitation on benefit accruals. The target normal cost does not reflect any limitation on benefit accruals.
- **Unpredictable contingent event benefits:** The plan does not have any unpredictable contingent event benefits.

Plan Provision Changes Since Prior Valuation

Maximum compensation amounts and maximum benefit amounts under IRS rules were updated from 2014 to 2015.

Effective July 1, 2015, the plan was amended to provide lump sums when the present value is under \$125,000.

SCHEDULE OF ASSETS (HELD AT END OF YEAR)
Form 5500, Schedule H, Part IV, Line 4i

Pension Plan of the Pacific Northwest Laboratories, Battelle Memorial Institute

EIN: 31-4379427
Plan Number 005

June 30, 2016

(a)	(b) Identity of Issue, Borrower, Lessor, or Similar Party	(c) Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(d) Cost	(e) Current Value
*	Northern Trust Company	Plan Interest in Master Trust	\$ 1,180,927	\$ 1,392,070
	Total Investments		<u>\$ 1,180,927</u>	<u>\$ 1,392,070</u>

* Party-in-interest to the Plan.

Schedule SB, line 26 – Schedule of Active Participant Data

Attained age	Years of credited service										
	Under 1	1–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39	40 & up	Total
Under 25	21 50,557	13									34
25–29	42 67,370	76 67,875	34 62,889	1							153
30–34	68 81,498	127 80,740	144 78,563	26 72,826	5						370
35–39	33 92,518	114 91,212	176 92,089	93 93,923	28 93,633	2					446
40–44	37 93,582	69 101,640	155 96,065	101 108,768	46 117,684	31 92,869	5				444
45–49	28 99,873	50 106,720	118 105,464	137 113,301	77 118,719	90 118,339	25 109,176	1			526
50–54	22 114,689	52 110,735	115 105,582	123 109,863	86 113,707	129 128,309	77 124,287	18	3		625
55–59	17	38 120,727	85 112,839	83 106,926	68 128,360	107 122,975	82 127,774	50 134,802	25 126,782		555
60–64	8	33 112,556	53 116,762	31 108,513	33 121,341	47 123,967	55 132,978	33 129,458	28 140,650	7	328
65–69	4	5	11	9	7	20 133,907	10	1	9	2	78
70 & up	1										1
Total	281	577	891	604	350	426	254	103	65	9	3,560 105,683

In each cell, the top number is the count of active participants for each age/service combination and the bottom number is average pay for 2014 limited to \$260,000. Average pay is not shown for plans with less than 1,000 active participants or cells with fewer than 20 participants.

Schedule SB, Part V – Statement of Actuarial Assumptions/Methods

Actuarial Assumptions for July 1, 2015 Funding Valuation

Discount rate sponsor elections

• Segment rates or full yield curve	Segment		
• Look-back months	4		
		Stabilized	Nonstabilized
• First 5 years		4.72%	1.25%
• Next 15 years		6.11%	4.08%
• Over 20 years		6.81%	5.15%

The segment rates above are mandated by PPA. Stabilized segment rates are in accordance with HATFA.

Mortality sponsor elections

• Healthy participants	Section 430(h)(3) prescribed separate generational annuitant and nonannuitant mortality tables.
• Pre-1995 disabilities	Revenue Ruling 96-7 table for participants who became disabled before 1995
• Post-1994 disabilities	Revenue Ruling 96-7 table for participants who became disabled after 1994 and are eligible for Social Security disability benefits

The mortality sponsor elections above are mandated by PPA.

417(e) lump sums	Lump Sums payable to all participants with a present value of accrued benefits less than \$125,000. Liabilities are determined based on the underlying annuity used by the plan to determine the lump sum amount, rather than valuing the lump sum payment. This annuity is valued based on funding interest rates rather than 417(e) rates and unisex generational mortality
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Lump sum sponsor elections are mandated by PPA.

Non-417(e) lump sums

• Mortality table	Not applicable
• Interest rate	Not applicable

Other economic assumptions

• Salary increases	Salary rates begin with 11.25% at age 20 and reduce until age 70 where the rate is then held constant at 1.05%. This assumption is based on an experience study covering the period July 1, 2009 to June 30, 2014 and is adjusted to reflect Battelle Memorial Institute's future budgeted salary increases. See table of sample rates
• Inflation	2.50% per year. This assumption is based on the inflation assumption periodically published by Mercer Investment Consulting in their Capital Markets Outlook.

Schedule SB, Part V – Statement of Actuarial Assumptions/Methods

- **Expected investment return** 7.75% per year for years 2011 through 2015. Mercer's best estimate return utilizes the weighted average approach, weighting 60% with forward looking asset return assumptions and 40% with the building block method recognizing current yields, which defines the return as the sum of three components: inflation, risk-free return, and risk premium, all offset by an expense load. Assumptions for these components are derived from the Mercer Investment Consulting Capital Market Outlook as of July 1, 2015. Risk premiums are applied appropriately to reflect Battelle Memorial Institute's actual asset allocation.
- **Expenses** The prior plan year's administrative and investment expenses, adjusted for expected events (if any), rounded up to the next \$5,000. For the 2015/2016 plan year, this amount is \$5,840,000 and has been added to 2015/2016 normal cost
- **Accrual of future credited service for benefit accrual** Hourly part-time employees are assumed to accrue .25 of a year during each future plan year. Full-time employees are assumed to accrue 1 year for each future year of employment. Non-hourly part-time employees who are not full-time are assumed to accrue 1 year times their percent full-time for each future year of employment. This assumption is based on an experience study covering the period July 1, 2009 to June 30, 2014. The plan sponsor believes that this period is representative of anticipated future experience.

Demographic assumptions

- **Withdrawal** Rates are based on length of service and age. This assumption is based on an experience study covering the period July 1, 2009 to June 30, 2014. See table of sample rates. The plan sponsor believes that this period is representative of anticipated future experience.
- **Disability incidence** Rates are based on age. This assumption is based on an experience study covering the period July 1, 2009 to June 30, 2014. See table of sample rates. The plan sponsor believes that this period is representative of anticipated future experience.

- **Retirement age**

Attained age	Percentage
Under 59	3.8%
59	5.8%
60-61	12.7%
62	18.6%
63	16.5%
64	19.8%
65-69	33%
70 and above	100%

This assumption is based on an experience study covering the period July 1, 2009 to June 30, 2014. See table of sample rates. The plan sponsor believes that this period is representative of anticipated future experience.

Schedule SB, Part V – Statement of Actuarial Assumptions/Methods

- Benefit commencement age for
 - Future vested deferred 62
 - Current vested deferred 63 if terminated before July 1, 2009
62 if terminated on or after July 1, 2009

This assumption is based on an experience study covering the period July 1, 2009 to June 30, 2014. The plan sponsor believes that this period is representative of anticipated future experience.

-
- | | | |
|-------------------------|---------------------------------|-----------------------------------|
| • Spouse assumptions | <u>Male participants</u> | <u>Female participants</u> |
| – Percentage married | 80% | 65% |
| – Spouse age difference | 2 years younger | 2 years older |

This assumption is based on an experience study covering the period July 1, 2009 to June 30, 2014. The plan sponsor believes that this period is representative of anticipated future experience.

Form of payment	<u>Single Life</u>	<u>10-year Certain & Life</u>	<u>100% J&S</u>	<u>100% J&S with 10-years Certain</u>	<u>Lump Sum</u>	<u>50% J&S</u>
• Active retirements	17.5%	2.5%	15%	5%	50%	10%
• Future vested deferred	17.5%	2.5%	15%	5%	50%	10%
• Current vested deferred	25%	25%	20%	20%	0%*	10%
• Not Lump Sum eligible	35%	5%	30%	10%	0%	20%

**50% of current vested deferred beneficiaries and current vested deferred disabled participants are assumed to elect a lump sum form of payment.*

- Future disabilities Single Life Annuity
- Future deaths 50% Joint and Survivor if married.
Life with 10 Years Certain if single

This assumption is based on an experience study covering the period July 1, 2009 to June 30, 2014. The plan sponsor believes that this period is representative of anticipated future experience.

Unpredictable contingent event assumptions	Not Applicable
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Schedule SB, Part V – Statement of Actuarial Assumptions/Methods

Table of Sample Rates

Attained age	Percentage			
	Withdrawal - Unisex		Disability Incidence Unisex	Salary Increases
	Less than 5 years of service	More than 5 years of service		
20	15.0%	16.7%	0.000%	11.25%
25	11.1	3.8	0.0367	7.00
30	12.0	4.0	0.0367	5.60
35	12.8	3.3	0.1310	4.75
40	13.9	3.1	0.1310	3.70
45	11.1	3.0	0.2825	3.40
50	11.9	3.2	0.2825	3.00
55	15.3	9.0	0.3376	2.55
60	17.4	17.4	0.3376	2.30
65	N/A	N/A	0.2208	1.95
70	N/A	N/A	N/A	1.05

Schedule SB, Part V – Statement of Actuarial Assumptions/Methods

Attained Age	Healthy Mortality- PPA Generational Table (Annuitant Illustrated)							
	Male				Female			
	2016	2021	2026	2031	2016	2021	2026	2031
20	0.035%	0.035%	0.035%	0.035%	0.019%	0.019%	0.019%	0.019%
25	0.038	0.038	0.038	0.038	0.021	0.021	0.021	0.021
30	0.044	0.044	0.044	0.044	0.026	0.026	0.026	0.026
35	0.077	0.077	0.077	0.077	0.048	0.048	0.048	0.047
40	0.108	0.108	0.107	0.103	0.071	0.071	0.070	0.065
45	0.224	0.221	0.207	0.194	0.112	0.111	0.102	0.094
50	0.525	0.480	0.438	0.400	0.230	0.212	0.194	0.178
55	0.526	0.478	0.434	0.395	0.337	0.323	0.311	0.298
60	0.686	0.633	0.584	0.539	0.587	0.572	0.558	0.544
65	1.071	0.998	0.930	0.867	0.957	0.933	0.910	0.887
70	1.617	1.499	1.390	1.289	1.507	1.470	1.433	1.398
75	2.622	2.444	2.278	2.122	2.281	2.191	2.105	2.022
80	4.714	4.483	4.263	4.054	3.690	3.563	3.440	3.321
85	8.601	8.304	8.018	7.741	6.236	6.051	5.872	5.698
90	15.562	15.253	14.950	14.654	11.642	11.468	11.297	11.129
95	24.396	24.153	23.912	23.674	17.740	17.563	17.388	17.215
100	32.742	32.578	32.416	32.254	22.565	22.453	22.341	22.229

Table illustrates mortality probabilities for individuals turning age 65 in the indicated years.

Actuarial Methods for Funding

Asset Methods

The asset valuation method is an average of the adjusted market value for each year during the last two years preceding the valuation date. The adjusted market value is the market value at each determination date adjusted to the valuation date based on actual cash flows and expected interest at the lesser of the expected rate of return and the third segment rate. This amount is adjusted to be no greater than 110% and no less than 90% of the fair market value, as defined in IRC Section 430.

A characteristic of this asset method is that, over time, it is slightly more likely to produce an actuarial value of assets that is less than the market value of assets than an actuarial value that is greater than the market value.

Schedule SB, Part V – Statement of Actuarial Assumptions/Methods

Participant Methods

Participants or former participants are included or excluded from the valuation as described below:

- **Participants included:** The plan sponsor provides us with data on all employees as of the valuation date, but only those employees who have completed the plan's eligibility requirements are included in the valuation of liabilities.
- **Participants excluded:** No actuarial liability is included for nonvested participants who terminated prior to the valuation date. For this purpose, participants with a break in service on the valuation date are treated as terminated participants.
- **Insurance contracts:** The plan does not have any insurance contracts.

Minimum Funding Methods

The funding target for minimum funding calculations is computed using the traditional unit credit method of funding. The objective under this method is to fund each participant's benefits under the plan as they accrue. Thus, the total pension to which each participant is expected to become entitled at retirement is broken down into units, each associated with a year of past or future credited service.

A detailed description of the calculation follows:

- The plan's valuation date is the beginning of the plan year.
- An individual's **funding target** is the present value of future benefits based on credited service and average pay as of the beginning of the plan year, and an individual's **target normal cost** is the present value of the benefit expected to accrue in the plan year. If multiple decrements are used, the funding target and the target normal cost for an individual is the sum of the component funding targets and target normal costs associated with the various anticipated separation dates.
- This plan provides disability/death benefits that are only partially based on a participant's accrued benefit or years of service. This benefit is allocated to funding target based on the accrued benefit on the valuation date plus a portion of the excess of the benefit over the accrued benefit multiplied by the ratio of the participant's service at the beginning of the plan year to their service at each decrement age. This benefit is allocated to target normal cost based on the proportionate benefit attributable to the increase in the participant's service and compensation during the plan year.
- The plan's **target normal cost** is the sum of the individual target normal costs, and the plan's **funding target** is the sum of the individual funding targets for all participants under the plan.

Maximum Suggested Contribution Funding Methods

Calculations of maximum suggested contributions include the excess of the funding target computed using the projected unit credit method over the minimum funding target. The objective of the projected unit credit method is to fund each participant's benefits under the plan as they accrue, taking into consideration expected future compensation increases. Thus, the total pension to which each participant is expected to become entitled at

Schedule SB, Part V – Statement of Actuarial Assumptions/Methods

retirement is broken down into units, each associated with a year of past or future credited service.

A detailed description of the calculation follows:

- An individual's **projected funding target** is the present value of benefits based on credited service as of the beginning of the plan year and projected compensation that would be used in the calculation of the benefit on each expected separation date. If multiple decrements are used, the projected funding target for an individual is the sum of the component projected funding targets associated with the various anticipated separation dates.
- The plan's **projected funding target** is the sum of the projected funding targets for all participants under the plan. The excess of the plan's projected funding target over the plan's funding target is included in the "cushion amount."

Schedule SB, line 24 – Change in Actuarial Assumptions

The following changes were made for the plan year beginning July 1, 2015.

- Interest discounts and mortality rates were updated from 2014 to 2015 in accordance with PPA.
- The expense component of normal cost was increased from \$5,815,000 to \$5,840,000 to reflect our expectations for the current plan year.
- The benefit commencement age was changed for future deferred vested participants and current deferred vested participants if an employee terminates on or after July 1, 2009 from age 65 to age 62 to better reflect plan experience.
- The percentage married assumption was updated from 80% for both males and females to 80% for males and 65% for females. This was updated to reflect an experience study undertaken from July 1, 2009 to June 30, 2014 to better reflect plan experience.
- The assumed spousal age difference was changed from 3 years younger for males and 3 years older for females to 2 years younger for males and 2 years older for females. This was updated to reflect an experience study undertaken from July 1, 2009 to June 30, 2014.
- Form of payment elections were changed according to an experience study undertaken from July 1, 2009 to June 30, 2014. The election percentages can be found in the table provided.
- Salary scales were changed according to an experience study undertaken from July 1, 2009 to June 30, 2014. The scales can be found in the table of sample rates provided.
- Disability incidence rates were changed according to an experience study undertaken from July 1, 2009 to June 30, 2014. The rates of disability incidence can be found in the table of sample rates provided.
- Withdrawal rates were changed according to an experience study undertaken from July 1, 2009 to June 30, 2014. The rates of withdrawal can be found in the table of sample rates provided.
- Retirement rates were changed according to an experience study undertaken from July 1, 2009 to June 30, 2014. Retirement rates can be found in the table of sample rates provided.

Schedule SB, line 22 – Description of Weighted Average Retirement Age

Each employee is assumed to retire in accordance with the table of retirement rates. The proportion of employees expected to retire at each potential retirement age is shown below. The average retirement age is 63.

(A) Retirement age	(B) Retirement percent	(C) Lx	(D) Number of employees expected to retire (B) x (C)	(E) (A) x (D)
55	3.8%	100,000	3,800	209,000
56	3.8%	96,200	3,656	204,714
57	3.8%	92,544	3,517	200,451
58	3.8%	89,028	3,383	196,217
59	5.8%	85,645	4,967	293,076
60	12.7%	80,677	10,246	614,761
61	12.7%	70,431	8,945	545,631
62	18.6%	61,486	11,436	709,062
63	16.5%	50,050	8,258	520,270
64	19.8%	41,792	8,275	529,585
65	33.0%	33,517	11,061	718,939
66	33.0%	22,456	7,411	489,100
67	33.0%	15,046	4,965	332,662
68	33.0%	10,081	3,327	226,210
69	33.0%	6,754	2,229	153,790
70	100.0%	4,525	4,525	316,765
Total			100,000	6,260,233
Average				62.60

The weighted average retirement age is the total for column E divided by the total for column D, rounded to the nearest integral age. It should be noted that while only integral values are shown in the table, the full content of each cell, including decimal portions, is used in the calculations.

Form 5500Department of the Treasury
Internal Revenue ServiceDepartment 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 6047(e), 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**2015****This Form is Open to
Public Inspection****Part I Annual Report Identification Information**For calendar plan year 2015 or fiscal plan year beginning **07/01/2015** and ending **06/30/2016**

- 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 forms instr.); or
- ☒ a single-employer plan; ☐ a DFE (specify) _____
- B** This return/report is: ☐ the first return/report; ☐ the final return/report; ☐ a short plan year return/report (less than 12 months);
- ☐ an amended return/report;
- 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) _____

Part II Basic Plan Information - enter all requested information**1a** Name of plan**PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES
BATTELLE MEMORIAL INSTITUTE****1b** Three-digit
plan number (PN) ►**005****1c** Effective date of plan
07/18/1941**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)

BATTELLE MEMORIAL INSTITUTE**2b** Employer Identification Number (EIN)
31-4379427**2c** Plan Sponsor's telephone number
614-424-7104**2d** Business code (see instructions)
541990**505 KING AVENUE
ROOM A-189
COLUMBUS****OH 43201****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	Plan Administrator <i>Vida M. Bowen</i>	<i>04/18/2017</i>	VIDA BOWEN
	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
Preparer's name (including firm name, if applicable) and address (include room or suite number)			Preparer's telephone number

For Paperwork Reduction Act Notice and OMB Control Numbers, see the instructions for Form 5500.

**Form 5500 (2015)
v. 150123**

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 has changed since the last return/report filed for this plan, enter the name, EIN and the plan number from the last return/report:**4b** EIN**a** Sponsor's name**4c** PN**5** Total number of participants at the beginning of the plan year**5** 7,249**6** Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1), 6a(2), 6b, 6c, and 6d).**a(1)** Total number of active participants at the beginning of the plan year**6a(1)** 3,560**a(2)** Total number of active participants at the end of the plan year**6a(2)** 3,636**b** Retired or separated participants receiving benefits**6b** 2,333**c** Other retired or separated participants entitled to future benefits**6c** 1,226**d** Subtotal. Add lines 6a(2), 6b, and 6c**6d** 7,195**e** Deceased participants whose beneficiaries are receiving or are entitled to receive benefits**6e** 242**f** Total. Add lines 6d and 6e**6f** 7,437**g** Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)**6g****h** Number of participants that terminated employment during the plan year with accrued benefits that were less than 100% vested**6h** 40**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:**1A** 3F 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) ☐ **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 2015 Form M-1 annual report. If the plan was not required to file the 2015 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) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	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.	<small>OMB No. 1210-0110</small> 2015 This Form is Open to Public Inspection
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For calendar plan year 2015 or fiscal plan year beginning 07/01/2015 and ending 06/30/2016

▶ **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 PENSION PLAN OF THE PACIFIC NORTHWEST LABORATORIES, BATTELLE MEMORIAL INSTITUTE	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">B Three-digit plan number (PN) ▶</td> <td style="width:40%; text-align: center;">005</td> </tr> </table>	B Three-digit plan number (PN) ▶	005
B Three-digit plan number (PN) ▶	005		
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF PACIFIC NORTHWEST LABORATORIES, BATTELLE MEMORIAL INSTITUTE	D Employer Identification Number (EIN) 31-4379427		
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>07</u> Day <u>01</u> Year <u>2015</u>				
2 Assets:				
a Market value	2a			1,327,327,403
b Actuarial value	2b			1,304,660,138
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	2,526	575,424,347	575,424,347	
b For terminated vested participants	1,207	94,209,522	94,209,522	
c For active participants	3,560	457,460,986	467,457,981	
d Total	7,293	1,127,094,855	1,137,091,850	
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	6.32%		
6 Target normal cost	6	27,383,053		

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	<div style="text-align: center;"> Christopher D. Kludy /CDK </div>	<div style="text-align: center;"> Dec. 20, 2016 </div>
	Signature of actuary	Date
	CHRISTOPHER D. KLUDY, FSA	1406018
	Type or print name of actuary	Most recent enrollment number
	MERCER	614-227-5500
	Firm name	Telephone number (including area code)
	325 JOHN H. MCCONNELL BLVD. STE 350	
	COLUMBUS OH 43215-7644	
	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 and OMB Control Numbers, see the instructions for Form 5500 or 5500-SF. Schedule SB (Form 5500) 2015 v. 150123

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	85,836,054
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	85,836,054
10	Interest on line 9 using prior year's actual return of <u>4.25</u> %	0	3,648,032
11	Prior year's excess contributions to be added to prefunding balance:		
a	Present value of excess contributions (line 38a from prior year)		40,240,470
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>6.54</u> %		2,631,727
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		42,872,197
d	Portion of (c) to be added to prefunding balance		42,872,197
12	Other reductions in balances due to elections or deemed elections	0	0
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	132,356,283

Part III Funding Percentages

14	Funding target attainment percentage	14	103.09%
15	Adjusted funding target attainment percentage	15	114.73%
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	102.15%
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
11/13/2015	4,375,000				
12/17/2015	4,375,000				
01/29/2016	4,375,000				
02/16/2016	4,375,000				
03/21/2016	4,375,000				
04/15/2016	4,375,000				
09/29/2016	8,959,872				
			Totals ►	18(b)	35,209,872
				18(c)	0

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	33,617,321

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

Equity shareholders at 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: 4.72%	2nd segment: 6.11%	3rd segment: 6.81%	☐ N/A, full yield curve used
b Applicable month (enter code)				21b 4
22 Weighted average retirement age				22 63
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 Is the plan required to provide a Schedule of Active Participants? 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 6)	31a	27,383,053	
b Excess assets, if applicable, but not greater than line 31a	31b	27,383,053	
32 Amortization installments:			
a Net shortfall amortization installment	Outstanding Balance	Installment	
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	33,617,321	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	33,617,321	
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 Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected	☐ 2 plus 7 years ☒ 15 years		
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☒ 2011		
42 Amount of acceleration adjustment	42	0	
43 Excess installment acceleration amount to be carried over to future plan years	43	0	