

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500.	OMB Nos. 1210-0110 1210-0089 2018 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information		
For calendar plan year 2018 or fiscal plan year beginning <u>01/01/2018</u> and ending <u>12/31/2018</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.)	
	☒ 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>PHARMACEUTICAL PRODUCT DEVELOPMENT, LLC RETIREMENT SAVINGS PLAN</u>	1b	Three-digit plan number (PN) ▶ <u>001</u>
		1c	Effective date of plan <u>01/01/1991</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>PHARMACEUTICAL PRODUCT DEVELOPMENT, LLC</u> <u>929 NORTH FRONT STREET</u> <u>WILMINGTON, NC 28401-3331</u>	2b	Employer Identification Number (EIN) <u>56-1640186</u>
		2c	Plan Sponsor's telephone number <u>910-251-0081</u>
		2d	Business code (see instructions) <u>325410</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	Filed with authorized/valid electronic signature.	10/14/2019	SCOTT ALLEN
	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

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

Form 5500 (2018)
v. 171027

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 or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name	4b EIN 4d PN
5 Total number of participants at the beginning of the plan year	5 11113
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits..... c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	6a(1) 8805 6a(2) 9130 6b 27 6c 2297 6d 11454 6e 11 6f 11465 6g 9103 6h 546
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	7
8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions: 2E 2F 2G 2J 2K 2T 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 2018 Form M-1 annual report. If the plan was not required to file the 2018 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 C</div> <div>(Form 5500)</div> <div>Department of the Treasury Internal Revenue Service</div> <div>Department of Labor Employee Benefits Security Administration</div> <div>Pension Benefit Guaranty Corporation</div>	<div>Service Provider Information</div> <div>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).</div> <div>▶ File as an attachment to Form 5500.</div>	OMB No. 1210-0110
		2018
		This Form is Open to Public Inspection.

For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018		
A Name of plan PHARMACEUTICAL PRODUCT DEVELOPMENT, LLC RETIREMENT SAVINGS PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 PHARMACEUTICAL PRODUCT DEVELOPMENT, LLC	D Employer Identification Number (EIN) 56-1640186	

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

1 Information on Persons Receiving Only Eligible Indirect Compensation

- a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions)..... ☐ Yes ☒ No
- b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

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

MASSMUTUAL RETIREMENT SERVICES, LLC

26-1589907

(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 37 38 49 50 59 60 62 63 64 65 72 99	N/A	622589	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

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

CAPFINANCIAL PARTNERS, LLC

26-0058143

(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?
26 27 50	N/A	90378	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

RSM US LLP

42-0714325

(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 50	N/A	21000	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)

K&L GATES LLP

25-0921018

(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 50	N/A	1705	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

RELIANCE TRUST COMPANY

58-1428634

(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?
19 25 99	N/A	0	Yes ☒ No ☐	Yes ☐ No ☒	545	Yes ☐ No ☒

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

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

Part I Service Provider Information (continued)

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

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
MASSMUTUAL RETIREMENT SERVICES, LLC	52 59 60 63	0
(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.	
SEE ATTACHED SCHEDULE C REPORT 26-1589907	SEE ATTACHED FORM 5500 SCHEDULE C REPORT	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
RELIANCE TRUST COMPANY	19 25 99	545
(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.	
MASSMUTUAL RETIREMENT SERVICES, LLC 26-1589907	SEE ATTACHED FORM 5500 SCHEDULE C REPORT	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

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

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

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

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

Explanation:

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

Explanation:

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

Explanation:

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

Explanation:

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

Explanation:

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
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)

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

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

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

SCHEDULE H (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110
		2018
		This Form is Open to Public Inspection

For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018	
A Name of plan PHARMACEUTICAL PRODUCT DEVELOPMENT, LLC RETIREMENT SAVINGS PLAN	B Three-digit plan number (PN) ► 001
C Plan sponsor's name as shown on line 2a of Form 5500 PHARMACEUTICAL PRODUCT DEVELOPMENT, LLC	D Employer Identification Number (EIN) 56-1640186

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

Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....	1b(1)		
(2) Participant contributions	1b(2)		
(3) Other.....	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....	1c(1)		
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other.....	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common.....	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property).....	1c(6)		
(7) Loans (other than to participants)	1c(7)		
(8) Participant loans.....	1c(8)	6610286	6738715
(9) Value of interest in common/collective trusts	1c(9)	31128850	35324973
(10) Value of interest in pooled separate accounts	1c(10)		
(11) Value of interest in master trust investment accounts	1c(11)		
(12) Value of interest in 103-12 investment entities.....	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)	707837353	679543186
(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	745576489	721606874

Liabilities

g Benefit claims payable	1g		
h Operating payables	1h		
i Acquisition indebtedness	1i		
j Other liabilities	1j		
k Total liabilities (add all amounts in lines 1g through 1j)	1k	0	0

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	745576489	721606874
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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)	16029611	
(B) Participants	2a(1)(B)	53687136	
(C) Others (including rollovers)	2a(1)(C)	10542105	
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		80258852
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)	318598	
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		318598
(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)	38984449	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		38984449
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		0
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)		
(B) Other	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		0

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		646570
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds).....	2b(10)		-88639898
c Other income.....	2c		716296
d Total income. Add all income amounts in column (b) and enter total	2d		32284867

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	55387664	
(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)		55387664
f Corrective distributions (see instructions)	2f		15963
g Certain deemed distributions of participant loans (see instructions)	2g		115183
h Interest expense	2h		
i Administrative expenses: (1) Professional fees.....	2i(1)	22705	
(2) Contract administrator fees.....	2i(2)	622589	
(3) Investment advisory and management fees.....	2i(3)	90378	
(4) Other	2i(4)		
(5) Total administrative expenses. Add lines 2i(1) through (4).....	2i(5)		735672
j Total expenses. Add all expense amounts in column (b) and enter total	2j		56254482

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		-23969615
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: RSM US LLP

(2) EIN: 42-0714325

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

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

Part IV Compliance Questions

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

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.).....

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	Amount
4a		X	
4b		X	

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

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

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

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

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

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110 2018 This Form is Open to Public Inspection.
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For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018

A Name of plan <u>PHARMACEUTICAL PRODUCT DEVELOPMENT, LLC RETIREMENT SAVINGS PLAN</u>	B Three-digit plan number (PN) ▶ <u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>PHARMACEUTICAL PRODUCT DEVELOPMENT, LLC</u>	D Employer Identification Number (EIN) <u>56-1640186</u>

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

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

1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions	1	
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>04-1590850</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	

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
--	-----------------------------------	-----------------------------------	-------------------------------	-----------------------------

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, see the Instructions for Form 5500.

Schedule R (Form 5500) 2018
v. 171027

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

b The plan year immediately preceding the current plan year

c The second preceding plan year

14a**14b****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

b The corresponding number for the second preceding plan year

15a**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

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

16a**16b**

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

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

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

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

- a** Enter the percentage of plan assets held as:

Stock: _____ % Investment-Grade Debt: _____ % High-Yield Debt: _____ % Real Estate: _____ % Other: _____ %

- b** Provide the average duration of the combined investment-grade and high-yield debt:

☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more

- c** What duration measure was used to calculate line 19(b)?

☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify):

**The Pharmaceutical Product
Development, LLC
Retirement Savings Plan**

Financial Report
December 31, 2018

Contents

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Independent Auditor's Report

To the Benefits Administrative Committee
The Pharmaceutical Product Development, LLC Retirement Savings Plan

Report on the Financial Statements

We were engaged to audit the accompanying financial statements of The Pharmaceutical Product Development, LLC Retirement Savings Plan (the Plan), which comprise the statements of net assets available for benefits as of December 31, 2018 and 2017, the related statement of changes in net assets available for benefits for the year ended December 31, 2018, 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 conducting the audit in accordance with auditing standards generally accepted in the United States of America. Because of the matter described in the Basis for Disclaimer of Opinion paragraph, however, we were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion.

Basis for Disclaimer of Opinion

As permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974, the Plan Administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the information summarized in Note 3, which was certified or provided by Reliance Trust Company, the trustee of the Plan, except for comparing such information with the related information included in the financial statements. We have been informed by the Plan Administrator that the trustee holds the Plan's assets and executes transactions. The Plan Administrator has obtained certifications from the trustee as of December 31, 2018 and 2017, and for the year ended December 31, 2018, that the information provided to the Plan Administrator by the trustee is a complete and accurate statement to the best of their knowledge.

Disclaimer of Opinion

Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we have not been able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion. Accordingly, we do not express an opinion on these financial statements.

Other Matter

The supplemental schedule of assets (held at end of year) as of December 31, 2018, is required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 and is presented for the purposes of additional analysis and is not a required part of the financial statements. The supplemental schedule is the responsibility of the Plan's management. Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we do not express an opinion on the supplemental schedule.

Report on Form and Content in Compliance With DOL Rules and Regulations

The form and content of the information included in the financial statements and supplemental schedule, other than that derived from the information certified or provided by the trustee, have been audited by us in accordance with auditing standards generally accepted in the United States of America and, in our opinion, are presented in compliance with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974.

RSM US LLP

New Bern, North Carolina
October 8, 2019

The Pharmaceutical Product Development, LLC Retirement Savings Plan

**Statements of Net Assets Available for Benefits
December 31, 2018 and 2017**

	2018	2017
Assets		
Investments at fair value	\$ 714,868,159	\$ 738,966,203
Receivables:		
Participants' contributions	-	54
Employer's contributions	-	20
Notes from participants	6,861,389	6,610,286
Revenue credits	157,680	155,710
	7,019,069	6,766,070
Net assets available for benefits	\$ 721,887,228	\$ 745,732,273

See notes to financial statements.

The Pharmaceutical Product Development, LLC Retirement Savings Plan

Statement of Changes in Net Assets Available for Benefits Year Ended December 31, 2018

Additions to net assets attributed to:	
Investment income (loss):	
Net depreciation in fair value of investments	\$ (87,993,328)
Interest and dividends	38,984,449
Total investment loss	<u>(49,008,879)</u>
Interest income on notes receivable from participants	318,598
Other income, revenue credits	718,266
Contributions:	
Participants	53,687,082
Employer, net of forfeitures	16,029,591
Rollovers	10,542,105
Total additions	<u>32,286,763</u>
Deductions from net assets attributed to:	
Benefits paid to participants	55,396,136
Administrative expenses	735,672
Total deductions	<u>56,131,808</u>
Net decrease in net assets available for benefits	(23,845,045)
Net assets available for benefits:	
Beginning of year	<u>745,732,273</u>
End of year	<u><u>\$ 721,887,228</u></u>

See notes to financial statements.

The Pharmaceutical Product Development, LLC Retirement Savings Plan

Notes to Financial Statements

Note 1. Plan Description

The following description of The Pharmaceutical Product Development, LLC Retirement Savings Plan (the Plan) provides only general information. Participants should refer to the Plan agreement for a more complete description of the Plan's provisions.

General: The Plan is a defined contribution plan covering substantially all U.S. employees of Pharmaceutical Product Development, LLC (the Company) and its participating subsidiaries. The Benefits Administrative Committee is responsible for oversight of the Plan. The Benefits Administrative Committee determines the appropriateness of the Plan's investment offerings, monitors investment performance and reports to the Company's Board of Directors. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA).

Plan amendment: Effective February 6, 2018, the Plan was amended to revise the definition of disability and related provisions regarding claims for benefits.

Contributions: Participants may contribute up to 50% of pretax annual compensation, as defined in the Plan. Participants who have attained age 50 before the end of the plan year are eligible to make catch-up contributions. Participants may also contribute amounts representing distributions from other qualified defined benefit or contribution plans (rollovers). The Company contributes an amount equal to 50% of the participant's contribution not to exceed 6% of compensation, as defined by the Plan. Additional amounts may be contributed at the option of the Company's Board of Directors. No such additional discretionary contributions were made for the year ended December 31, 2018. Contributions are subject to certain Internal Revenue Service (IRS) limitations.

Investment options: Upon enrollment in the Plan, a participant may direct all contributions to selected investments as made available and determined by the Plan Administrator in 1% increments. Participants may change their investment options daily.

Participant accounts: Each participant's account is credited with the participant's contributions and the Company's matching contributions, as well as allocations of the Company's discretionary contribution, if any, and Plan earnings/losses. Participant accounts are charged with an allocation of administrative expenses that are paid by the Plan. Allocations are based on participant earnings or account balances or specific participant transactions, as defined. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Vesting: Participants are vested immediately in their contributions plus actual earnings thereon. Participants are vested in the Company's contributions plus actual earnings thereon based on years of continuous service. A participant is 100% vested after four years of service.

Payment of benefits: The Plan permits withdrawals when a participant terminates employment, retires or becomes disabled or deceased. In-service withdrawals are also permitted for certain financial hardships or when a participant attains age 59½. Benefits are payable in lump-sum payments with certain exceptions allowed.

Forfeitures: Forfeitures are used to reduce future employer contributions as soon as administratively practical. Forfeited nonvested accounts totaled \$288,210 and \$224,505 at December 31, 2018 and 2017, respectively. During 2018, \$817,595 was used to reduce employer matching contributions.

The Pharmaceutical Product Development, LLC Retirement Savings Plan

Notes to Financial Statements

Note 1. Plan Description (Continued)

Revenue credits: The Plan has an investment revenue credit arrangement with MassMutal Retirement Services, whereby the trustee makes quarterly deposits, in arrears into the Plan for certain excess revenues earned in connection with plan service. The revenue credits are Plan assets that may be used to reimburse the Company for fees and expenses or to pay vendors. The amounts unused for expenses may also be allocated to participant accounts (not more frequently than quarterly). During 2018, \$660,346 of revenue credits were allocated to participants.

Notes receivable from participants: Participants may borrow from their accounts a minimum of \$1,000 and up to a maximum equal to the lesser of 50% of their vested account balance or \$50,000. Loan terms range up to five years or over a reasonable period of time for the purchase of a participant's primary residence, as established by the Plan Administrator at the time of the loan. The loans are collateralized by the vested balance in the participant's account and bear interest at a rate commensurate with local prevailing rates as determined quarterly by the Plan Administrator. These rates ranged from 4.25% to 6.50% on loans outstanding at December 31, 2018, and mature through 2028. Principal and interest are paid ratably through bi-weekly payroll deductions.

Note 2. Summary of Significant Accounting Policies

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

Use of estimates: The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America (GAAP) requires the Plan's management to make estimates and assumptions that affect the reported amounts of net assets available for benefits and changes therein. Actual results could differ from those estimates.

Investment valuation and income recognition: Investments are reported at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The Plan's Benefits Administrative Committee determines the Plan's valuation policies utilizing information provided by the Plan's investment advisor. See Note 4 for discussion of fair value measurements.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net depreciation includes the Plan's gains and losses on investments bought and sold as well as held during the year.

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

Notes receivable from participants: Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Interest income is recorded on the accrual basis. Related fees are recorded as administrative expenses and are expensed when they are incurred. If a participant ceases to make the scheduled repayments and the Plan Administrator deems the participant to be in default, the participant's note receivable is reduced and a benefit payment is recorded based on the terms of the Plan. No allowance for credit losses has been recorded as of December 31, 2018 and 2017.

The Pharmaceutical Product Development, LLC Retirement Savings Plan

Notes to Financial Statements

Note 2. Summary of Significant Accounting Policies (Continued)

Contributions: Contributions from the Plan participants and the matching contribution from the Company are recorded in the year in which the participant contributions are withheld from amounts paid. All participant and employer contributions are participant-directed. Participant contributions in excess of amounts allowed by the IRS are recorded as a liability with a corresponding reduction in contributions.

Payment of benefits: Benefits are recorded when paid.

Expenses: Certain expenses of maintaining the Plan are paid directly by the Company and are excluded from these financial statements. Administrative expenses include fees related to the administration of notes receivable that are charged directly to the participant's account and certain recordkeeping fees paid by the Plan. Investment related expenses are included in net appreciation (depreciation) of fair value of investments.

Adoption of accounting pronouncement: In August 2018, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) No. 2018-13, *Fair Value Measurement (Topic 820): Disclosure Framework – Changes to Disclosure Requirements for Fair Value Measurement*. The amendments in this ASU modify the disclosure requirements on fair value measurements in Topic 820, *Fair Value Measurement*, based on the concepts in the FASB Concepts Statement, including the consideration of cost and benefits.

The following disclosure requirements were removed from Topic 820:

1. The amount of and reasons for transfers between Level 1 and Level 2 of the fair value hierarchy.
2. The policy for timing of transfers between levels.
3. The valuation processes for Level 3 fair value measurements.
4. For nonpublic entities, the changes in unrealized gains and losses for the period included in earnings for recurring Level 3 fair value measurements held at the end of the reporting period.

The following disclosure requirements were modified in Topic 820:

1. In lieu of a roll forward for Level 3 fair value measurements, a nonpublic entity is required to disclose transfer into and out of Level 3 of the fair value hierarchy and purchases and issues of Level 3 assets and liabilities.
2. For investments in certain entities that calculate net asset value, an entity is required to disclose the timing of liquidation of an investee's assets and the date when restrictions from redemption might lapse only if the investee has communicated the timing to the entity or announced the timing publicly.
3. The amendments clarify that the measurement uncertainty disclosure is to communicate information about the uncertainty in measurement as of the reporting date.

The amendments in this Update are effective for all entities for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2019. The entity is permitted to early adopt any removed or modified disclosures upon issuance to this Update and delay adoption of the additional disclosures until their effective date. The Plan adopted this Update for the removal, modification or addition of certain fair value measurement disclosures presented in the financial statements.

Subsequent events: The Plan has evaluated subsequent events (events occurring after December 31, 2018) through October 8, 2019, the date the financial statements were available to be issued.

The Pharmaceutical Product Development, LLC Retirement Savings Plan

Notes to Financial Statements

Note 3. Information Certified or Provided by Reliance Trust Company (Trustee)

The following is a summary of the Plan's asset information as of December 31, 2018 and 2017, and for the year ended December 31, 2018, included throughout the Plan's financial statements and supplemental schedule, that was prepared by or derived from information provided by the trustee and furnished to the Plan Administrator. The Plan Administrator has obtained certifications from the trustee that information provided to the Plan Administrator by the trustee related to the following assets is a complete and accurate statement to the best of their knowledge. Accordingly, as permitted by 29 CFR 2520.103-8 of the Department of Labor's (DOL) Rules and Regulations for Reporting and Disclosure under ERISA, the Plan Administrator instructed the Plan's independent auditors not to perform any auditing procedures with respect to the information that appears throughout the financial statements and supplemental schedule related to the following assets:

	December 31	
	2018	2017
Investments at fair value:		
Registered investment companies	\$ 679,543,186	\$ 707,837,353
Common collective trust stable value fund	35,324,973	31,128,850
	<u>\$ 714,868,159</u>	<u>\$ 738,966,203</u>
Notes receivable from participants	<u>\$ 6,861,389</u>	<u>\$ 6,610,286</u>

Reliance Trust Company also certified to the completeness and accuracy to the best of their knowledge of \$87,993,328 of net depreciation in fair value of investments, \$39,303,047 of interest and dividends and \$718,266 of other income, revenue credits related to the aforementioned plan assets for the year ended December 31, 2018.

The Pharmaceutical Product Development, LLC Retirement Savings Plan

Notes to Financial Statements

Note 4. Fair Value Measurements

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

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

Level 2: Inputs to the valuation methodology include:

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

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

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

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

Following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in the methodologies used at December 31, 2018 and 2017.

Registered investment companies (mutual funds): Valued at the daily closing price as reported by the fund. Mutual funds held by the Plan are open-end mutual funds that are registered with the Securities and Exchange Commission. These funds are required to publish their daily net asset value (NAV) and to transact at that price. The mutual funds held by the Plan are deemed to be actively traded.

Common collective trust stable value fund: A stable value fund that is composed of investment contracts that are valued at the NAV of units of the collective trust. The NAV is used as a practical expedient to estimate fair value. This practical expedient would not be used if it is determined to be probable that the fund will sell the investment for an amount different from the reported NAV. Participant transactions (purchases and sales) may occur daily. If the Plan initiates a full redemption of the collective trust, the issuer reserves the right to require 12 months' notification in order to ensure that securities liquidations will be carried out in an orderly business manner.

The Pharmaceutical Product Development, LLC Retirement Savings Plan

Notes to Financial Statements

Note 4. Fair Value Measurements (Continued)

The following tables set forth by level within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2018 and 2017.

Description	Assets at Fair Value as of December 31, 2018			
	Level 1	Level 2	Level 3	Total
Registered investment companies	\$ 679,543,186	\$ -	\$ -	\$ 679,543,186
Investments measured at NAV (a)				35,324,973
Investments at fair value				\$ 714,868,159

Description	Assets at Fair Value as of December 31, 2017			
	Level 1	Level 2	Level 3	Total
Registered investment companies	\$ 707,837,353	\$ -	\$ -	\$ 707,837,353
Investments measured at NAV (a)				31,128,850
Investments at fair value				\$ 738,966,203

- (a) In accordance with the Fair Value Measurements topic, certain investments that were measured at NAV per share (or its equivalent) as a practical expedient have not been classified in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the line items presented in the statements of net assets available for benefits.

The following table summarizes investments for which fair value is estimated using NAV per share (or its equivalent) as a practical expedient as of December 31, 2018 and 2017:

Investment	Fair Value December 31		Unfunded Commitment	Redemption Frequency	Redemption Notice Period
	2018	2017			
Common collective trust stable value fund:					
Wells Fargo Stable Value	\$ 35,324,973	\$ 31,128,850	None	Immediate	None

To assess the appropriate classification of investments within the fair value hierarchy, the availability of market data is monitored. Changes in economic conditions or valuation techniques may require the transfer of investments from one fair value level to another.

The Plan evaluates the significance of transfers between levels based upon the nature of the investment and size of the transfer relative to total net assets available for benefits.

The Pharmaceutical Product Development, LLC Retirement Savings Plan

Notes to Financial Statements

Note 5. Related Party and Parties-in-Interest Transactions

Reliance Trust Company is the trustee of the Plan; therefore, transactions with the trustee qualify as parties-in-interest transactions. The Plan did not pay any fees to the trustee for the year ended December 31, 2018. MassMutual Retirement Services is the custodian of the Plan; therefore, transactions with the custodian qualify as parties-in-interest transactions. Fees paid by the Plan to the custodian totaled \$622,589 for the year ended December 31, 2018. Fees paid by the Plan for auditing, investment advisory services and legal totaled \$113,083 for the year ending December 31, 2018. The Company also paid certain administrative expenses of the Plan.

Note 6. Plan Termination

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

Note 7. Tax Status

The Plan has received a determination letter from the IRS dated November 1, 2017, stating that the Plan is qualified under Section 401(k) of the Internal Revenue Code (the Code) and, therefore, the related trust is exempt from taxation. Although the Plan has been amended since receiving the determination letter, the Plan Administrator believes the Plan is designed, and is currently being operated in compliance with the applicable requirements of the Code and, therefore, believes that the Plan, as amended, is qualified and the related trust is tax exempt.

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

Note 8. Reconciliation of Financial Statements to Form 5500

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

	December 31	
	2018	2017
Net assets available for benefits per the financial statements	\$ 721,887,228	\$ 745,732,273
Differences in:		
Investments – participant loans	6,738,715	6,610,286
Receivables – contributions	-	(74)
Receivables – notes receivable from participants	(6,861,389)	(6,610,286)
Receivables – revenue credits	(157,680)	(155,710)
Net assets available for benefits per the Form 5500	<u>\$ 721,606,874</u>	<u>\$ 745,576,489</u>

The Pharmaceutical Product Development, LLC Retirement Savings Plan

Notes to Financial Statements

Note 8. Reconciliation of Financial Statements to Form 5500 (Continued)

The following is a reconciliation of net decrease in net assets available for benefits per the financial statements to the Form 5500:

	Year Ended December 31, 2018
	<hr/>
Net decrease in net assets available for benefits per the financial statements	\$ (23,845,045)
2017 Receivable - contributions	74
Change in plan reimbursement receivable	(1,970)
2018 deemed distributions	<hr/> (122,674)
Net loss per the Form 5500	<hr/> <hr/> \$ (23,969,615)

The Pharmaceutical Product Development, LLC Retirement Savings Plan

Schedule H, Line 4i – Schedule of Assets (Held at End of Year) December 31, 2018

Employer Identification Number: 56-1640186

Plan Number: 001

(a)	(b)	(c)	(d)	(e)
	Identity of Issue, Borrower, Lessor, or Similar Party	Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par, Maturity Value	Cost**	Current Value
		Mutual funds, registered investment companies:		
	American Funds	American Funds-Investment Co. of America	\$	64,123,504
	American Funds	American Funds EuroPacific Fund		15,154,266
	Fidelity	Fidelity Freedom 2010 Fund		5,559,655
	Fidelity	Fidelity Freedom 2020 Fund		15,394,192
	Fidelity	Fidelity Freedom 2030 Fund		38,386,840
	Fidelity	Fidelity Freedom 2040 Fund		45,167,311
	Fidelity	Fidelity Freedom 2050 Fund		22,403,229
	Fidelity	Fidelity Freedom 2015 Fund		715,028
	Fidelity	Fidelity Freedom 2025 Fund		4,404,269
	Fidelity	Fidelity Freedom 2035 Fund		14,969,537
	Fidelity	Fidelity Freedom 2045 Fund		15,477,046
	Fidelity	Fidelity Freedom 2055 Fund		12,236,349
	Hartford	Hartford International Opportunities Y		36,507,752
	JPMorgan	JPMorgan Small Cap Equity Fund		49,195,522
	JPMorgan	JPMorgan Core Bond		27,062,892
*	MassMutual	MassMutual Select Mid Cap Growth Equity II Fund		9,872,452
	MFS	MFS Total Return Fund		66,418,732
	MFS	MFS Mid Cap Value		38,442,714
	MFS	MFS Growth Fund		62,663,597
	PIMCO	PIMCO Real Return Institutional Fund		16,524,334
	Vanguard	Vanguard Institutional Index Fund		91,971,336
	Vanguard	Vanguard Extended Market Index Fund		7,519,440
	Vanguard	Vanguard Total Bond Market Index Fund		8,049,343
	Vanguard	Vanguard Total International Stock Index Fund		7,099,454
	Victory	Victory Small Company Fund		4,224,392
				<u>679,543,186</u>
		Common collective trust stable value fund:		
	Wells Fargo	Wells Fargo Stable Value		<u>35,324,973</u>
		Participant loans***		
*	Participants	4.25% – 6.50%; maturing through 2028		<u>6,738,715</u>
			\$	<u><u>721,606,874</u></u>

* Designates party-in-interest.

** All investments are participant-directed; therefore, cost information has not been presented.

*** Net of \$122,674 in deemed loans distributions.

Fee and Compensation Disclosure Report

This document is intended to assist a plan administrator (“you”) in completing the Form 5500 Schedule C¹ by identifying different types of compensation paid with respect to the product utilized by your plan.

As permitted under the Schedule C rules, compensation is disclosed in the attached report as an actual dollar amount, an estimate or a formula or rate.

- Where an actual dollar amount of compensation is disclosed, no further notation regarding compensation calculations is generally provided.
- Where an estimate of the compensation amount is disclosed, we have used a reasonable method to arrive at the estimate and we have described the method used to arrive at the estimated amount.
- Where a formula or rate is provided to report compensation, we have used a reasonable method to arrive at the estimate and we have described the method used to arrive at the estimated amount. This formula or rate may be disclosed to describe the compensation to which it applies under the Schedule C rules. Alternatively, for purposes of Schedule C disclosure or in connection with your fiduciary review of the compensation paid with respect to the services, products and investment options utilized by the plan, you may calculate and disclose an actual or estimated dollar amount by multiplying the rate by the total assets to which it applies.

Please note that, unless otherwise indicated in the descriptions contained in this report, direct compensation is presented on a plan year basis 01/01/2018 - 12/31/2018 and indirect compensation is presented on a calendar year basis ending 12/31/2018.

This report includes compensation actually paid to or by MassMutual within the indicated plan year as part of your MassMutual-serviced product. *(Note: If the plan year period or plan year end indicated in this Schedule C reporting package is incorrect, please notify your MassMutual customer service representative immediately).* This report does not include amounts deducted from plan assets and paid to third parties (other than MassMutual). In addition, the report does not include compensation related to investments held by the plan that are not serviced on our recordkeeping system. You should contact your other service providers for reportable compensation information. You may also receive information on the compensation reported here from other service providers as is described below.

Please note that we have provided suggested service codes with respect to services provided through our product. Please review all Schedule C and other Form 5500 materials with your experienced benefits counsel and other professionals to determine the most appropriate codes for your plan. In addition, please note that because plans with fewer than 100 participants (as of the beginning of the plan year) are generally not required to file Schedule C, you should refer to the instructions provided by the IRS for Schedule C and/or review the applicability of Schedule C to your plan with your experienced tax/benefits counsel, to determine whether it is necessary for the plan to report the information contemplated by this report.

Please contact your MassMutual Service Team should you require additional information regarding the compensation paid to or by MassMutual with respect to your plan.

Information provided in this document and related materials we provide are not intended to be and shall not be deemed tax advice, tax form preparation services, legal advice, advice to plans regarding compliance with ERISA reporting compliance, or accounting or other professional services. As described above, the information contained in this report may not cover all of the compensation received by the plan’s service providers. We strongly encourage you to review all Schedule C and other Form 5500 materials with experienced benefits counsel and other professionals.

¹Please refer to the Schedule C of the Form 5500 and its instructions (available at: <http://www.dol.gov/ebsa/5500main.html>), and please confer with experienced benefits counsel and other professionals, to determine the applicability of Schedule C to your plan.

FORM 5500 SCHEDULE C REPORT
SCHEDULE C, LINE 2(h) AND LINE 3(e) FORMULA DESCRIPTION

PPD RETIREMENT SAVINGS PLAN (990500107)

EIN #: 56-1640186

Please note that, unless otherwise indicated in the descriptions contained in this report, direct compensation is presented on a plan year basis 01/01/2018 - 12/31/2018 and indirect compensation is presented on a calendar year basis ending 12/31/2018.

For use with lines 2(h), 3(c), 3(d), 3(e)

Total Direct Compensation Paid

\$735,671.87

The total amount identified above reflects all fees deducted from plan assets at the plan administrator's direction for the plan year. Service providers which have received portions of these direct fees are listed below, along with the amount of fees they received. Please note that if there is a discrepancy between the total direct fees reported above and the sum of the direct fees reported below, you should contact your other service providers or your plan records to identify the recipient(s) of the fees and any other information relevant to your Schedule C filing.

Recipient: MassMutual Retirement Services, LLC EIN: 26-1589907

Service Codes: 15, 37, 38, 49, 59, 60, 62, 63, 64, 65, 72, 99, 50 (if direct compensation amount reflected below)

Direct Compensation

\$622,589.00

The total amount identified above reflects fees deducted from plan assets at the plan administrator's direction for the 2018 plan year for the above named recipient. Please review other service providers, below, to determine whether direct fees were also paid to them. Also, please review your records to determine whether other service providers may have received any compensation not reported below (e.g., a reimbursement paid to any plan fiduciary, your employee benefits counsel, or a plan auditor).

Note: Due to system accounting protocols (including 'cash basis' accounting), amounts reported as Direct Compensation and amounts reported as paid to MassMutual Retirement Services, LLC ("MMRS") are the net result of aggregating direct compensation after the effects of adjustments processed in 2018, some of which may have pertained to prior years.

Please review the detailed breakdown at the end of the report for further information.

Indirect Compensation

Annual referral fee for Millennium Trust Automatic Rollover service

Service code: 49

Payor: Millennium Trust Company, LLC EIN: 36-4400066

Millennium Trust Company, LLC (MTC) paid MassMutual a one-time referral fee of (i) \$40 for each participant IRA rollover with a balances of \$500 or more, (ii) \$10 for each participant IRA rollover with a balances between \$75 and \$500, and (iii) \$0 for each participant IRA rollover with a balance of less than \$75.

Non Monetary Compensation

Please note that items of nonmonetary compensation need to be reported for Schedule A or C (Form 5500) purposes if they exceed certain *de minimus* amounts. Transactions generating nonmonetary compensation may include gifts, gratuities, or certain types of in-kind benefits. In addition, if applicable to the plan, MassMutual agents may qualify for certain forms of non-monetary compensation as a result of the sale of MassMutual contracts. These forms of non-monetary compensation include health, vision, life and disability coverage; matching contributions to 401(k) plans; cash balance and nonqualified pension plan contributions; participation at MassMutual-sponsored conferences based on recognition; and other non-monetary compensation (meals, entertainment, prizes, awards, gifts). If applicable, each plan in the agent's book of business is allocated compensation based on a pro rata basis using the number of plans representing the agent's book of business as of 12/31/2018. Information concerning reportable transactions undertaken between or among non-MassMutual parties may not be available to MassMutual. Please consult with your legal or tax advisors if you have any questions.

Compensation paid with respect to Funds

<i>Investment Option Name</i>	<i>EIN</i>	<i>Rate of Fees and Payments Received By MassMutual with Respect to the Fund (rates as of 12/31/2018)</i>	<i>Total Fund Annual Operating Expenses (Fund Expense Ratio) (as of 12/31/2018)</i>
AMERICAN FUNDS EUROPACIFIC-R6	95-1411037		0.49%
AMERICAN FUNDS INV CO AMER-R6	95-1426645		0.30%
FIDELITY FREEDOM 2010	04-3022712	0.25%	0.53%
FIDELITY FREEDOM 2015	04-3022712	0.25%	0.57%
FIDELITY FREEDOM 2020	04-3022712	0.25%	0.61%
FIDELITY FREEDOM 2025	04-3022712	0.25%	0.66%
FIDELITY FREEDOM 2030	04-3022712	0.25%	0.70%
FIDELITY FREEDOM 2035	04-3022712	0.25%	0.74%
FIDELITY FREEDOM 2040	04-3022712	0.25%	0.75%
FIDELITY FREEDOM 2045	04-3022712	0.25%	0.75%
FIDELITY FREEDOM 2050	04-3022712	0.25%	0.75%
FIDELITY FREEDOM 2055	04-3022712	0.25%	0.75%
JPMORGAN CORE BOND-R6	26-3613641		0.40%
JPMORGAN SMALL CAP EQUITY-R5	33-1043149	0.10%	0.86%
JPMORGAN SMALL CAP EQUITY-R6	33-1043149		0.76%
MFS GROWTH FUND-R6	04-3158862		0.60%
MFS MID CAP VALUE-R6	04-3158862		0.71%
MFS TOTAL RETURN FUND-R4	04-2468583	0.20%	0.48%
PIMCO REAL RETURN INSTL	95-2632339		0.88%
SELECT TRW PRICE/FRN MC GR II I	04-2483041		0.72%
THE HARTFORD INTERNAT'L OPP-Y	22-2937447	0.15%	0.74%
VANGUARD EXT MARKET INDEX-ADM	23-1999755		0.08%
VANGUARD EXTENDED MRKT IDX INST	23-1999755		0.06%
VANGUARD INSTITUTIONAL INDEX	23-1945930		0.03%
VANGUARD TOT BOND MKT INDEX-ADM	23-1945930		0.05%
VANGUARD TOTAL BND MRKT IDX INST	23-1945930		0.04%
VANGUARD TOTAL INTL STK INDX-ADM	23-1945930		0.11%
VANGUARD TOTAL INTL STOCK INDX-I	23-1945930		0.09%
VICTORY SYCAMORE SMALL CO OPP-I	31-6364605	0.15%	0.90%
WELLS FARGO STABLE RETURN C	41-0449260		0.54%

The list includes any investment option held by the plan on at least one month end during the 2018 calendar year. To arrive at an estimate of the dollar amount that MassMutual received from each fund, multiply the rate of fees received from each fund by your plan's year-end balance (or if the fund was liquidated prior to year end, the balance on the liquidation date) and, if applicable, the per participant fee by the number of participants in the fund at year end (or the liquidation date if earlier). This will be an estimate because your plan's balance and number of participants will vary over the course of the year, so the year-end balance and number of participants may be higher or lower than the daily balance. In addition, these fees are calculated on a daily basis.

Recipient: Other EIN: 99-9999999

Service Codes:

Please contact your Service Provider for the list of applicable services performed and Service Codes.

Direct Compensation

\$113,082.87

The total amount identified above reflects fees deducted from plan assets at the plan administrator's direction for the 2018 plan year for the above named recipient.

Note: Due to system accounting protocols (including 'cash basis' accounting), amounts reported as Direct Compensation are the net result of aggregating direct compensation after the effects of adjustments processed in 2018, some of which may have pertained to prior years.

Please review the detailed breakdown at the end of the report for further information.

Indirect Compensation

\$0.00

Our records indicate that this recipient did not receive any Indirect Compensation. Please review your records to determine whether this service provider may have received any compensation not reported.

Recipient: Reliance Trust Company EIN: 58-1428634

Indirect Compensation

Trust Service Fee (if Reliance Trust Company is acting as directed trustee)

\$325.00

Service Codes: 25, 99

Payors: Massachusetts Mutual Life Insurance Company EIN: 04-1590850
MassMutual Retirement Services, LLC EIN: 26-1589907

Reflects the annual per plan trust service fee in effect as of December 31, 2018. Please note that this amount changed in the third quarter of 2018. For additional information, please refer to your "RELiance TRUST COMPANY ERISA 408(b)(2) Fee Disclosure" materials.

Custodial Fee

\$220.00

Service Codes: 19, 25, 99

Payors: Massachusetts Mutual Life Insurance Company EIN: 04-1590850
MassMutual Retirement Services, LLC EIN: 26-1589907

This is an estimate of December 31, 2018 determined by dividing a flat annual fee paid to Reliance Trust Company by the number of plans to whom this feature is made available.

Direct Revenue Detail

Recipient: *MassMutual Retirement Services, LLC*

<u>Fee Description</u>	<u>Dollar Amount</u>
Ad-Hoc Fee	\$561,614.00
Loan Set-up Fee	\$24,300.00
Loan Administration Fee	\$36,675.00
Total Direct Revenue:	\$622,589.00

Recipient: *Other*

<u>Fee Description</u>	<u>Dollar Amount</u>
Expense Budget Account: Service Provider Fee	\$113,082.87
Total Direct Revenue:	\$113,082.87

Grand Total Direct Fees:	\$735,671.87
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Schedule C Soft Dollar Compensation Eligible Indirect Compensation Statement

Mutual fund investments of the plan (whether direct or indirect through a separate investment account) may have soft dollar arrangements pursuant to which the investment advisor or sub-advisor to the mutual fund (and/or its affiliates) may direct trades to certain brokers in exchange for research and other services, other than just trade execution. For plans investing directly or indirectly in the MassMutual Premier or Select Funds, the funds listed below had soft dollar arrangements during the previous fiscal year-end. For details, please refer to the Portfolio Transactions and Brokerage section of the Statement of Additional Information (“SAI”). For all other mutual funds, MassMutual provided the required written disclosure in the Statement of Additional Information (“SAI”).

For additional information on soft dollar compensation, refer to the section of the mutual fund’s SAI that discusses brokerage allocation and other practices.

MassMutual Premier Funds

MassMutual Premier Balanced Fund
MassMutual Premier Disciplined Gr Fund
MassMutual Premier Disciplined Value Fund
MassMutual Premier FundInternational Eq Fund
MassMutual Premier Global Fund
MassMutual Premier Main Street Fund
MassMutual Premier Small Cap Opps Fund
MassMutual Premier Strat Emerg Mkts Fund

MassMutual Select Funds

MassMutual Select BlackRock Gbl Allc Fund
MassMutual Select Blue Chip Growth Fund
MassMutual Select Diversified Value Fund
MassMutual Select Equity Opports Fund
MassMutual Select Fundamental Growth Fund
MassMutual Select Fundamental Value A
MassMutual Select Fundamental Value Adm
MassMutual Select Fundamental Value Fund
MassMutual Select Growth Opps Fund
MassMutual Select Mid Cap Growth Fund
MassMutual Select Mid Cap Value Fund
MassMutual Select Mid-Cap Value Fund
MassMutual Select Overseas Fund
MassMutual Select Small Cap Gr Eq Fund
MassMutual Select Small Cap Growth Eq Fund
MassMutual Select Small Cap Val Eq Fund
MassMutual Select Small Company Val Fund
MassMutual Select Small Company Value Fund

The Pharmaceutical Product Development, LLC Retirement Savings Plan

Schedule H, Line 4i – Schedule of Assets (Held at End of Year) December 31, 2018

Employer Identification Number: 56-1640186

Plan Number: 001

(a)	(b)	(c)	(d)	(e)
	Identity of Issue, Borrower, Lessor, or Similar Party	Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par, Maturity Value	Cost**	Current Value
		Mutual funds, registered investment companies:		
	American Funds	American Funds-Investment Co. of America	\$	64,123,504
	American Funds	American Funds EuroPacific Fund		15,154,266
	Fidelity	Fidelity Freedom 2010 Fund		5,559,655
	Fidelity	Fidelity Freedom 2020 Fund		15,394,192
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	Fidelity	Fidelity Freedom 2040 Fund		45,167,311
	Fidelity	Fidelity Freedom 2050 Fund		22,403,229
	Fidelity	Fidelity Freedom 2015 Fund		715,028
	Fidelity	Fidelity Freedom 2025 Fund		4,404,269
	Fidelity	Fidelity Freedom 2035 Fund		14,969,537
	Fidelity	Fidelity Freedom 2045 Fund		15,477,046
	Fidelity	Fidelity Freedom 2055 Fund		12,236,349
	Hartford	Hartford International Opportunities Y		36,507,752
	JPMorgan	JPMorgan Small Cap Equity Fund		49,195,522
	JPMorgan	JPMorgan Core Bond		27,062,892
*	MassMutual	MassMutual Select Mid Cap Growth Equity II Fund		9,872,452
	MFS	MFS Total Return Fund		66,418,732
	MFS	MFS Mid Cap Value		38,442,714
	MFS	MFS Growth Fund		62,663,597
	PIMCO	PIMCO Real Return Institutional Fund		16,524,334
	Vanguard	Vanguard Institutional Index Fund		91,971,336
	Vanguard	Vanguard Extended Market Index Fund		7,519,440
	Vanguard	Vanguard Total Bond Market Index Fund		8,049,343
	Vanguard	Vanguard Total International Stock Index Fund		7,099,454
	Victory	Victory Small Company Fund		4,224,392
				<u>679,543,186</u>
		Common collective trust stable value fund:		
	Wells Fargo	Wells Fargo Stable Value		<u>35,324,973</u>
		Participant loans***		
*	Participants	4.25% – 6.50%; maturing through 2028		<u>6,738,715</u>
			\$	<u><u>721,606,874</u></u>

* Designates party-in-interest.

** All investments are participant-directed; therefore, cost information has not been presented.

*** Net of \$122,674 in deemed loans distributions.