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

Part I Annual Report Identification Information

For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018

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.)
- [X] 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:
- [X] Form 5558
- [ ] automatic extension
- [ ] the DFVC program
- [ ] special extension (enter description)

Part II Basic Plan Information—enter all requested information

1a Name of plan
PENTAIR, INC. RETIREMENT SAVINGS AND STOCK

1b Three-digit plan number (PN) ▶ 002

1c Effective date of plan 01/01/1984

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)
PENTAIR, INC.

5500 WAYZATA BOULEVARD, SUITE 900
GOLDEN VALLEY, MN 55416-1261

2b Employer Identification Number (EIN)
41-0907434

2c Plan Sponsor's telephone number
763-545-1730

2d Business code (see instructions)
551112

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.	08/30/2019	DIANA SOLOMON, SR. DIR GLO BENEFITS
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE	Filed with authorized/valid electronic signature.	08/30/2019	MARK C. BORIN, CFO
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

3a Plan administrator's name and address [X] Same as Plan Sponsor

3b Administrator's EIN

3c Administrator's telephone number

4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report:
a Sponsor's name
c Plan Name

4b EIN

4d PN

5 Total number of participants at the beginning of the plan year	**5**	11458
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)**	8415
a(2) Total number of active participants at the end of the plan year	**6a(2)**	4531
b Retired or separated participants receiving benefits	**6b**	89
c Other retired or separated participants entitled to future benefits	**6c**	2044
d Subtotal. Add lines **6a(2)**, **6b**, and **6c**	**6d**	6664
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.	**6e**	21
f Total. Add lines **6d** and **6e**.	**6f**	6685
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	**6g**	6477
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	**6h**	156
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 2I 2J 2K 2O 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)		**9b** Plan benefit arrangement (check all that apply)	
(1)	[ ] Insurance	**(1)**	[ ] Insurance
(2)	[ ] Code section 412(e)(3) insurance contracts	**(2)**	[ ] Code section 412(e)(3) insurance contracts
(3)	[X] Trust	**(3)**	[X] Trust
(4)	[ ] General assets of the sponsor	**(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) [X] **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) [X] **H** (Financial Information)

(2) [ ] **I** (Financial Information – Small Plan)

(3) [ ] ___ **A** (Insurance Information)

(4) [X] **C** (Service Provider Information)

(5) [X] **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_____

SCHEDULE C (Form 5500)	Service Provider Information	OMB No. 1210-0110
Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	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.**	**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
PENTAIR, INC. RETIREMENT SAVINGS AND STOCK

B Three-digit plan number (PN) ▶ 002

C Plan sponsor's name as shown on line 2a of Form 5500
PENTAIR, INC.

D Employer Identification Number (EIN)
41-0907434

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). . . . . [X] 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

FIDELITY INVESTMENTS INSTITUTIONAL

04-2647786

(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)

FIDELITY INVESTMENTS INSTITUTIONAL

04-2647786

(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?
37 64 65 71	RECORDKEEPER	398872	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

VISIONS INC

41-1638459

(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?
36 16	CONSULTANT	8178	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

VANGUARD

455 DEVON PARK DRIVE
WAYNE, PA 19087-1815

(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?
60	FUND MANAGER	0	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [X] 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)

FIDELITY INVESTMENTS INSTITUTIONAL

04-2647786

(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?
60	FUND MANAGER	0	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [X] No [ ]

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

FIDELITY MANAGEMENT TRUST CO

04-2647786

(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?
60	FUND MANAGER	0	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [X] No [ ]

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

BLACKROCK INSTITUTIONAL TRUST CO NA

47-1246942

(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	FUND MANAGER	0	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [X] 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)

JP MORGAN CHASE BANK

270 PARK AVENUE
NEW YORK, NY 10017

(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?
60	FUND MANAGER	0	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [X] No [ ]

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

OAKMARK

PO BOX 219432
KANSAS CITY, MO 64121

(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?
60	FUND MANAGER	0	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [X] No [ ]

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

VICTORY CAPITAL MANAGEMENT INC

4900 TIEDMAN ROAD, 4TH FLOOR
BROOKLYN, OH 44144

(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?
60	FUND MANAGER	0	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [X] 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)

DODGE & COX

PO BOX 219432
KANSAS CITY, MO 64121

(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?
60	FUND MANAGER	0	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [X] No [ ]

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

PRINCIPAL LIFE INSURANCE CO

46-0743367

(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?
60	FUND MANAGER	0	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [X] No [ ]

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

HARTFORD MUTUAL FUNDS

41-0679409

(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?
60	FUND MANAGER	0	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [X] 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)

AFFILIATED MANAGERS GROUP

PO BOX 9793
PROVIDENCE, RI 02940

(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?
60	FUND MANAGER	0	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [X] No [ ]

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

RELIANCE TRUST COMPANY

35-7085469

(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?
60	FUND MANAGER	0	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [X] 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
FIDELITY INVESTMENT INSTITUTIONAL	60	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.
DODGE & COX INTL STK PO BOX 219432 KANSAS CITY, MO 64121	0.10%

(a) Enter service provider name as it appears on line 2	**(b)** Service Codes (see instructions)	**(c)** Enter amount of indirect compensation
FIDELITY INVESTMENT INSTITUTIONAL	60	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.
HTFD INTL SM CO Y 41-0679409	0.15%

(a) Enter service provider name as it appears on line 2	**(b)** Service Codes (see instructions)	**(c)** Enter amount of indirect compensation
FIDELITY INVESTMENT INSTITUTIONAL	60	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.
OAKMARK FUND INV PO BOX 219432 KANSAS CITY, MO 64121	0.35%

Part II Service Providers Who Fail or Refuse to Provide Information

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

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

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

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

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

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

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

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)

(complete as many entries as needed)

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

Explanation:

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

Explanation:

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

Explanation:

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

Explanation:

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

Explanation:

SCHEDULE D (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

DFE/Participating Plan Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).

▶ **File as an attachment to Form 5500.**

OMB No. 1210-0110

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
PENTAIR, INC. RETIREMENT SAVINGS AND STOCK

B Three-digit plan number (PN) ▶ 002

C Plan or DFE sponsor's name as shown on line 2a of Form 5500
PENTAIR, INC.

D Employer Identification Number (EIN)
41-0907434

Part I **Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs)**
(Complete as many entries as needed to report all interests in DFEs)

a Name of MTIA, CCT, PSA, or 103-12 IE: FID MIP II, CL4

b Name of sponsor of entity listed in (a): FIDELITY MANAGEMENT TRUST COMPANY

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)
04-3022712-025	C	106133868

a Name of MTIA, CCT, PSA, or 103-12 IE: JPMCB SR PB INCOME FUND

b Name of sponsor of entity listed in (a): TRANSAMERICA FINANCIAL LIFE INSURANCE COMPANY

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)
36-6071399-030	C	13816648

a Name of MTIA, CCT, PSA, or 103-12 IE: JPMCB SR PB 2020 CF

b Name of sponsor of entity listed in (a): TRANSAMERICA FINANCIAL LIFE INSURANCE COMPANY

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)
36-6071399-030	C	52289002

a Name of MTIA, CCT, PSA, or 103-12 IE: JPMCB SR PB 2025 CF

b Name of sponsor of entity listed in (a): TRANSAMERICA FINANCIAL LIFE INSURANCE COMPANY

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)
36-6071399-030	C	60952974

a Name of MTIA, CCT, PSA, or 103-12 IE: JPMCB SR PB 2030 CF

b Name of sponsor of entity listed in (a): TRANSAMERICA FINANCIAL LIFE INSURANCE COMPANY

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)
36-6071399-030	C	57382978

a Name of MTIA, CCT, PSA, or 103-12 IE: JPMCB SR PB 2035 CF

b Name of sponsor of entity listed in (a): TRANSAMERICA FINANCIAL LIFE INSURANCE COMPANY

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)
36-6071399-030	C	41111281

a Name of MTIA, CCT, PSA, or 103-12 IE: JPMCB SR PB 2040 CF

b Name of sponsor of entity listed in (a): TRANSAMERICA FINANCIAL LIFE INSURANCE COMPANY

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)
36-6071399-030	C	32295872

a Name of MTIA, CCT, PSA, or 103-12 IE:	JPMCB SR PB 2045 CF	
b Name of sponsor of entity listed in (a):	TRANSAMERICA FINANCIAL LIFE INSURANCE COMPANY	
c EIN-PN 36-6071399-030	**d** Entity code C	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 20398621
a Name of MTIA, CCT, PSA, or 103-12 IE:	JPMCB SR PB 2050 CF	
b Name of sponsor of entity listed in (a):	TRANSAMERICA FINANCIAL LIFE INSURANCE COMPANY	
c EIN-PN 36-6071399-030	**d** Entity code C	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 23992065
a Name of MTIA, CCT, PSA, or 103-12 IE:	JPMCB SR PB 2055 CF	
b Name of sponsor of entity listed in (a):	TRANSAMERICA FINANCIAL LIFE INSURANCE COMPANY	
c EIN-PN 36-6071399-030	**d** Entity code C	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 11324576
a Name of MTIA, CCT, PSA, or 103-12 IE:	JPMCB SR PB 2060 CF	
b Name of sponsor of entity listed in (a):	TRANSAMERICA FINANCIAL LIFE INSURANCE COMPANY	
c EIN-PN 36-6071399-030	**d** Entity code C	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 1467956
a Name of MTIA, CCT, PSA, or 103-12 IE:	FID GROWTH CO POOL	
b Name of sponsor of entity listed in (a):	FIDELITY MANGEMENT TRUST COMPANY	
c EIN-PN 04-3022712-025	**d** Entity code C	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 146779475
a Name of MTIA, CCT, PSA, or 103-12 IE:	RT L&G RUSSELL 3000	
b Name of sponsor of entity listed in (a):	LEGAL & GENERAL COLLECTIVE INVESTMENT TRUST	
c EIN-PN 35-7085469-004	**d** Entity code C	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 112160227
a Name of MTIA, CCT, PSA, or 103-12 IE:	RT L&G MSCI EAFE A	
b Name of sponsor of entity listed in (a):	LEGAL & GENERAL COLLECTIVE INVESTMENT TRUST	
c EIN-PN 35-7085469-004	**d** Entity code C	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 1454386
a Name of MTIA, CCT, PSA, or 103-12 IE:	PIF DVRSD RA CIT T1	
b Name of sponsor of entity listed in (a):	PRINCIPAL TRUST COMPANY	
c EIN-PN 46-0743367-001	**d** Entity code C	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 656358
a Name of MTIA, CCT, PSA, or 103-12 IE:	BTC TOTAL RETURN	
b Name of sponsor of entity listed in (a):	BLACKROCK INSTITUTIONAL TRUST COMPANY, N.A.	
c EIN-PN 47-1246942-001	**d** Entity code C	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 21782010
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 PENTAIR, INC. RETIREMENT SAVINGS AND STOCK INCENTIVE PLAN

b Name of plan sponsor PENTAIR, INC. **c** EIN-PN 41-0907434-002

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

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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
PENTAIR, INC. RETIREMENT SAVINGS AND STOCK

B Three-digit plan number (PN) ▶ 002

C Plan sponsor's name as shown on line 2a of Form 5500
PENTAIR, INC.

D Employer Identification Number (EIN)
41-0907434

Part I Asset and Liability Statement

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

Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions	1b(1)	9276507	818546
(2) Participant contributions	1b(2)	1361849	1198655
(3) Other	1b(3)	1252	1147
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)	1688372	306804
(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)	15194662	12523866
(9) Value of interest in common/collective trusts	1c(9)	859763956	703998297
(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)	197965832	153727560
(14) Value of funds held in insurance company general account (unallocated contracts)	1c(14)		
(15) Other	1c(15)		

			(a) Beginning of Year	(b) End of Year
1d	Employer-related investments:			
	(1) Employer securities	1d(1)	129662345	100000291
	(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	1214914775	972575166
	Liabilities			
g	Benefit claims payable	1g		
h	Operating payables	1h		
i	Acquisition indebtedness	1i		
j	Other liabilities	1j	83794	1147
k	Total liabilities (add all amounts in lines 1g through1j)	1k	83794	1147
	Net Assets			
l	Net assets (subtract line 1k from line 1f)	1l	1214830981	972574019

Part II Income and Expense Statement

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

			(a) Amount	(b) Total
	Income			
a	**Contributions:**			
	(1) Received or receivable in cash from: **(A)** Employers	2a(1)(A)	24305283	
	(B) Participants	2a(1)(B)	43209288	
	(C) Others (including rollovers)	2a(1)(C)	32476502	
	(2) Noncash contributions	2a(2)		
	(3) Total contributions. Add lines **2a(1)(A), (B), (C),** and line **2a(2)**	2a(3)		99991073
b	**Earnings on investments:**			
	(1) Interest:			
	(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	13441	
	(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)	600807	
	(F) Other	2b(1)(F)		
	(G) Total interest. Add lines **2b(1)(A)** through **(F)**	2b(1)(G)		614248
	(2) Dividends: **(A)** Preferred stock	2b(2)(A)		
	(B) Common stock	2b(2)(B)	2461598	
	(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	17378542	
	(D) Total dividends. Add lines **2b(2)(A)**, **(B)**, and **(C)**	2b(2)(D)		19840140
	(3) Rents	2b(3)		
	(4) Net gain (loss) on sale of assets: **(A)** Aggregate proceeds	2b(4)(A)	129156612	
	(B) Aggregate carrying amount (see instructions)	2b(4)(B)	144107760	
	(C) Subtract line **2b(4)(B)** from line **2b(4)(A)** and enter result	2b(4)(C)		-14951148
	(5) Unrealized appreciation (depreciation) of assets: **(A)** Real estate	2b(5)(A)	-2333277	
	(B) Other	2b(5)(B)		
	(C) Total unrealized appreciation of assets. Add lines **2b(5)(A)** and **(B)**	2b(5)(C)		-2333277

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		-30839052
(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)		-39618330
c Other income	2c		338493
d Total income. Add all **income** amounts in column (b) and enter total	2d		33042147
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	140974237	
(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)		140974237
f Corrective distributions (see instructions)	2f		45764
g Certain deemed distributions of participant loans (see instructions)	2g		14748
h Interest expense	2h		
i Administrative expenses: (1) Professional fees	2i(1)		
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)		
(4) Other	2i(4)	730958	
(5) Total administrative expenses. Add lines **2i(1)** through **(4)**	2i(5)		730958
j Total expenses. Add all **expense** amounts in column (b) and enter total	2j		141765707
Net Income and Reconciliation			
k Net income (loss). Subtract line **2j** from line **2d**	2k		-108723560
l Transfers of assets:			
(1) To this plan	2l(1)		0
(2) From this plan	2l(2)		133533402

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) [X] 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 [X] No

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

(1) Name: DELOITTE & TOUCHE **(2)** EIN: 13-3891517

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	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.)	4a		X	
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)	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.)	4c		X	
d	Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)	4d		X	
e	Was this plan covered by a fidelity bond?	4e	X		15000000
f	Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	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?	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?	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.)	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.)	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?	4k		X	
l	Has the plan failed to provide any benefit when due under the plan?	4l		X	
m	If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	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)
EMERSON ELECTRIC CO. EMPLOYEE SAVINGS INVESTMENT PLAN	43-0259330	016

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.

For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018

A Name of plan
PENTAIR, INC. RETIREMENT SAVINGS AND STOCK

B Three-digit plan number (PN) ▶ 002

C Plan sponsor's name as shown on line 2a of Form 5500
PENTAIR, INC.

D Employer Identification Number (EIN)
41-0907434

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): 04-6568107

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

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

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

4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ..... ☐ **Yes** ☐ **No** ☐ **N/A**

If the plan is a defined benefit plan, go to line 8.

5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. **Date:** Month _____ Day _____ Year _____

If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.

6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived) **6a**

b Enter the amount contributed by the employer to the plan for this plan year **6b**

c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount) **6c**

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

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

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

Part III Amendments

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

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

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

11 a Does the ESOP hold any preferred stock? ..... ☐ **Yes** ☒ **No**

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

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

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that 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: _____% 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):

Pentair, Inc. Retirement Savings and Stock Incentive Plan

Employer ID No: 41-0907434

Plan Number: 002

Financial Statements as of December 31, 2018 and 2017, for the Year Ended December 31, 2018, Supplemental Schedule as of December 31, 2018, and Independent Auditors' Report

PENTAIR, INC. RETIREMENT SAVINGS AND STOCK INCENTIVE PLAN

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NOTE: All other schedules required by Section 2520.103-10 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 have been omitted because they are not applicable.

INDEPENDENT AUDITORS' REPORT

To the Plan Participants and Plan Administrator of
Pentair, Inc. Retirement Savings and Stock Incentive Plan:

We have audited the accompanying financial statements of the Pentair, Inc. Retirement Savings and Stock Incentive Plan (the "Plan"), which comprise the statements of net assets available for benefits as of December 31, 2018 and 2017, and 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.

Auditors' 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.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2018 and 2017, and the changes in net assets available for benefits for the year ended December 31, 2018 in accordance with accounting principles generally accepted in the United States of America.

Report on Supplemental Schedules
Our audits were conducted for the purpose of forming an opinion on the financial statements as a whole. The supplemental schedule of Assets (held at end of year) as of December 31, 2018 is presented for the purpose 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. The schedule is the responsibility of the Plan's management and are derived from and relate directly to the underlying accounting and other records used to prepare the financial statements. Such schedule has been subjected to the auditing procedures applied in our audits of the financial statements and certain additional procedures, including comparing and reconciling such schedules 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, such schedule is fairly stated in all material respects in relation to the financial statements as a whole.

Deloitte & Touche LLP

June 27, 2019
Minneapolis, Minnesota

PENTAIR, INC. RETIREMENT SAVINGS AND STOCK INCENTIVE PLAN

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS
AS OF DECEMBER 31, 2018 AND 2017

	2018	2017
ASSETS:		
Notes receivable from participants	$ 13,206,110	$ 15,874,168
Employee contributions receivable	1,198,655	1,361,849
Employer contributions receivable	818,546	9,276,507
Other receivables	1,147	1,252
Total receivables	15,224,458	26,513,776
Investments — at fair value	959,247,762	1,189,317,543
Total assets	974,472,220	1,215,831,319
LIABILITIES:		
Investment settlements payable	1,147	83,794
Total liabilities	1,147	83,794
NET ASSETS AVAILABLE FOR BENEFITS	$ 974,471,073	$ 1,215,747,525

See accompanying notes to financial statements.

PENTAIR, INC. RETIREMENT SAVINGS AND STOCK INCENTIVE PLAN

STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS
FOR THE YEAR ENDED DECEMBER 31, 2018

ADDITIONS:	
Employee contributions	$ 43,209,288
Employer contributions	24,305,283
Rollover contributions	32,476,502
Interest, dividend and other income	22,561,215
Total additions	122,552,288
DEDUCTIONS:	
Benefits paid to participants	141,031,871
Administrative expenses	643,208
Net depreciation in the fair value of investments	88,594,143
Total deductions	230,269,222
DECREASE IN NET ASSETS BEFORE PLAN TRANSFERS	(107,716,934)
PLAN TRANSFERS (Note 1)	(133,559,518)
DECREASE IN NET ASSETS	(241,276,452)
NET ASSETS AVAILABLE FOR BENEFITS — Beginning of year	1,215,747,525
NET ASSETS AVAILABLE FOR BENEFITS — End of year	$ 974,471,073

See accompanying notes to financial statements.

1. DESCRIPTION OF THE PLAN

The following description of the Pentair, Inc. Retirement Savings and Stock Incentive Plan (the "Plan") provides only general information. Participants should refer to the Plan document for a more complete description of the Plan.

General Information — The Plan is a defined contribution profit-sharing plan with a cash or deferred arrangement described in Internal Revenue Code ("IRC") Section 401(k) and an employee stock ownership plan ("ESOP") component of the stock-bonus type. With certain exceptions, the Plan covers employees of Pentair, Inc. (the "Company") and its U.S. subsidiaries who have attained age 18, although such employees must have one year of service before becoming eligible for employer discretionary contributions. The Company is a subsidiary of Pentair plc and is the Plan sponsor as well as Plan administrator. Fidelity Management Trust Company ("Fidelity") is recordkeeper and trustee of the Plan, including the ESOP. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 ("ERISA"), as amended.

In January 2018, in connection with the sale of the Valves & Controls business to Emerson Electric Company ("Emerson"), the Plan transferred $133,559,518 to an Emerson tax-qualified retirement plan. The assets transferred were related to Plan accounts of participants who transferred to Emerson and were no longer participating under the Plan.

Subsequent to the issuance of the 2017 financial statements, the Plan's management determined that the investment in the Managed Income Portfolio II Fund on the *Statements of Net Assets Available for Benefits* should have been listed as an investment at fair value instead of an investment at contract value. In addition, a disclosure error was identified in the previously reported amounts of "Investments at Fair Value" and "Investments at Net Asset Value (NAV)" in Note 4. The Managed Income Portfolio II Fund had previously not been included in "Investments at Fair Value" and "Investments at NAV." There is no change in total investments disclosed or reported.

Participation — Participation for regular full- and part-time employees may commence effective with the date of hire, provided that the employee is at least age 18, and provided that a non-regular employee must complete six months of service before becoming a participant. Participant contributions are subject to a maximum of 50% of pre-tax compensation and 15% of after-tax compensation for a combined limit of 65% of compensation. Employee contributions are also subject to the IRC 402(g) limitation of $18,500 for 2018 and $18,000 for 2017, respectively, provided that employees who will be age 50 or older are permitted to make additional catch-up contributions to the Plan up to the IRC limitation of $6,000 for 2018 and 2017.

The Plan has an automatic enrollment feature for new non-union employees at a deferral rate of 5% of eligible compensation with an automatic annual increase of 1% of eligible compensation per year until the participant reaches a deferral rate of 10%. Employees may opt-out of automatic enrollment and automatic annual increase at any time.

Non-union matching contributions are 100% of the first 5% of eligible compensation that is contributed to the Plan by a participant on a pre-tax basis and are made in the form of cash. Union matching contributions are cash contributions made in accordance with the respective union contract agreements, with the majority of the union matching contributions being equal to 50% of the first 5% of eligible compensation that is contributed to the Plan by a union participant on a pre-tax basis.

Discretionary ESOP contributions for union participants are made in accordance with the respective union contract agreements, which provide for contributions of cash or Pentair plc common stock at 1.5% of eligible compensation.

Participant Accounts — Individual accounts are maintained for each Plan participant. Each participant's account is credited with the participant's contributions, the Company's matching contributions and allocations of Company discretionary ESOP contributions and Plan earnings, and charged with withdrawals and allocations of Plan losses and administrative expenses. Allocations are based on participant compensation or account balances, as defined in the Plan document. The benefit to which a participant is entitled to under the Plan is the benefit that can be provided from the participant's vested account.

Investments — Participants direct the investment of their contributions into various investment options offered by the Plan. Company discretionary ESOP contributions are automatically invested in Pentair plc common stock. The Plan currently offers various investment alternatives to Plan participants, consisting of corporate stock, mutual funds and stable value funds. Investment management fees are charged against 401(k) trust earnings prior to the allocation of earnings.

Notes receivable from participants — Loans for any reason are allowed under the Plan. The interest rate charged is prime rate plus 1% at the time funds are borrowed. The maximum maturity of the loans is five years (15 years for loans to purchase a primary residence). The minimum loan amount is $1,000, and the maximum is the lesser of 50% of the vested account balance, not including employer contributions, or $50,000. Due to transfers of notes receivable from participants related to plan mergers in prior years, certain loans outstanding as of December 31, 2018 may bear interest at rates higher than the prime rate plus 1%, however, there are no loans outstanding with an original maturity greater than 15 years.

Vesting — All pre-tax elective deferral, after-tax, and discretionary contributions are immediately 100% vested. The Company's matching contributions for non-union participants generally are 100% vested after 12 months of service and union participants vest in accordance with the respective union contracts.

Administrative Expenses — Administrative expenses of the Plan are paid in part by the Plan sponsor and the participants as provided in the Plan document.

Payment of Benefits — Upon severance from service for any reason, a participant may elect to receive a lump-sum amount equal to the value of the participant's vested interest in his or her account. Some participants can also elect annual installments over a term-certain period.

Withdrawals — Hardship withdrawals are available for immediate and heavy financial need up to the amount of pre-tax contributions, but not earnings. Hardship withdrawals can occur any time with a maximum of two per calendar year.

Subsequent Events — Subsequent events were evaluated through June 27, 2019, the date the financial statements were available to be issued.

2. SIGNIFICANT ACCOUNTING POLICIES

Basis of accounting

The financial statements of the Plan have been prepared on the accrual basis of accounting and in accordance with accounting principles generally accepted in the United States of America ("GAAP").

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, liabilities and changes therein and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

Investment valuation and income recognition

The Plan provides various investment options to its participants, including corporate stock, mutual funds and stable value funds. Investment securities, in general, are exposed to various risks, such as interest rate risk, credit risk and overall market volatility. Due to the level of risk associated with certain investment securities, it is 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 financial statements.

The Plan's investments are stated at fair value. Accounting guidance related to fair value measurements, which establishes a single authoritative definition of fair value, sets a framework for measuring fair value, and requires additional disclosures about fair value measurements (see Note 4). Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation and depreciation

in the fair value of investments includes gains and losses in investments sold during the year as well as appreciation and depreciation of the investments held at year end.

Notes receivable from participants
Notes receivable from participants are measured at their unpaid balance plus any accrued but unpaid interest. Delinquent participant loans are recorded as distributions based on the terms of the Plan document.

Payments of benefits
Benefit payments to participants are recorded upon distribution. There were no participants who have elected to withdraw from the Plan but had not yet been paid at December 31, 2018 and 2017.

3. STABLE VALUE FUND

The Plan provides participants a stable value investment option managed by Fidelity. The Managed Income Portfolio II Fund of the Fidelity Group for Employee Benefit Plans (the "fund") includes synthetic guaranteed investment contracts (the "wrap contracts") and is a portfolio of financial instruments. The wrap contracts cover the underlying portfolio of financial instruments and require that all participant-initiated transactions be executed at contract value. Contract value represents contributions made to the fund, plus earnings, less participant withdrawals.

The fund is valued using the NAV per share. The fund's contract value was $107,348,678 and $113,939,948 as of December 31, 2018 and 2017, respectively. The redemption frequency is daily. There is no redemption notice period for the individual participant level; however, there is up to a 12 month redemption notice period for the Plan level.

Wrap contracts accrue interest using a formula called the "crediting rate." Wrap contracts use the crediting rate formula to convert market value changes in the covered assets into income distributions in order to minimize the difference between the market and contract value of the covered assets over time. Using the crediting rate formula, an estimated future market value is calculated by compounding the fund's current market value at the fund's current yield to maturity for a period equal to the fund's duration. The crediting rate is the discount rate that equates the estimated future market value with the fund's current contract value. Crediting rates are reset quarterly. The wrap contracts provide a guarantee that the crediting rate will not fall below 0%. The crediting rate is 2.17% for 2018.

The crediting rate, and hence the fund's return, may be affected by many factors, including purchases and redemptions by shareholders. The precise impact on the fund depends on whether the market value of the covered assets is higher or lower than the contract value of those assets. If the market value of the covered assets is higher than their contract value, the crediting rate will ordinarily be higher than the yield of the covered assets. Under these circumstances, cash from new investors will tend to lower the crediting rate and the fund's return, and redemptions by existing shareholders will tend to increase the crediting rate and the fund's return.

If the market value of the covered assets is lower than their contract value, the crediting rate will ordinarily be lower than the yield of the covered assets. When market value is lower than contract value, the fund will have, for example, less than $10 in cash and bonds for every $10 in NAV. Under these circumstances, cash from new investors will tend to increase the market value attributed to the covered assets and to increase the crediting rate and the fund's return. Redemptions by existing shareholders will have the opposite effect and will tend to reduce the market value attributed to remaining covered assets and to reduce the crediting rate and the fund's return. Generally, the market value of covered assets will tend to be higher than contract value after interest rates have fallen due to higher bond prices. Conversely, the market value of covered assets will tend to be lower than their contract value after interest rates have risen due to lower bond prices.

If the fund experiences significant redemptions when the market value is below the contract value, the fund's yield may be reduced significantly to a level that is not competitive with other investment options. This may result in additional redemptions, which would tend to lower the crediting rate further. If redemptions continue, the fund's yield could be reduced to zero. If redemptions continue thereafter, the fund might have insufficient assets to meet redemption requests, at which point the fund would require payments from the wrap issuer to pay further shareholder redemptions.

The fund and the wrap contracts purchased by the fund are designed to pay all participant-initiated transactions at contract value. Participant-initiated transactions are those transactions allowed by the Plan (typically this would include withdrawals for benefits, loans, or transfers to noncompeting funds within a plan). However, the wrap contracts limit the ability of the fund to transact at contract value upon the occurrence of certain events. These events include:

- The Plan's failure to qualify under Section 401(a) or Section 401(k) of the IRC
- The establishment of a defined contribution plan that competes with the Plan for employee contributions
- Any substantive modification of the Plan or the administration of the Plan that is not consented to by the wrap issuer
- Complete or partial termination of the Plan
- Any change in law, regulation, or administrative ruling applicable to the Plan that could have a material adverse effect on the fund's cash flow
- Merger or consolidation of the Plan into another plan; the transfer of Plan assets to another plan; or the sale, spin-off, or merger of a subsidiary or division of the Plan sponsor
- Any communication given to participants by the Plan sponsor or any other Plan fiduciary that is designed to induce or influence participants not to invest in the fund or to transfer assets out of the fund
- Exclusion of a group of previously eligible employees from eligibility in the Plan
- Any early retirement program, group termination, group layoff, facility closing, or similar program
- Any transfer of assets from the fund directly to a competing option

A wrap issuer may terminate a wrap contract at any time. In the event that the market value of the fund's covered assets is below its contract value at the time of such termination, Fidelity may elect to keep the wrap contract in place until such time as the market value of the fund's covered assets is equal to its contract value. A wrap issuer may also terminate a wrap contract if Fidelity's investment management authority over the fund is limited or terminated as well as if all of the terms of the wrap contract failed to be met. In the event that the market value of the fund's covered assets is below its contract value at the time of such termination, the terminating wrap provider would not be required to make a payment to the fund. The Plan sponsor does not believe that any events that may limit the ability of the Plan to transact at contract value are probable.

	December 31, 2018
Average yields:	
Based on annualized earnings [1]	2.55%
Based on interest rate credited to participants [2]	2.17

[1] Computed by dividing the annualized one-day actual earnings of the contract on the last day of the Plan year by the fair value of the investments on the same date.

[2] Computed by dividing the annualized one-day earnings credited to participants on the last day of the Plan year by fair value of the investments on the same date.

4. FAIR VALUE MEASUREMENTS

The Plan's estimates of fair value for financial assets are based on the framework established in the fair value accounting guidance. Fair value is the price that would be received by the Plan for an asset or paid by the Plan to transfer a liability (an exit price) in an orderly transaction between market participants on the measurement date in the Plan's principal or most advantageous market for the asset or liability. Fair value measurements are determined by maximizing the use of observable inputs and minimizing the use of unobservable inputs. The hierarchy places the highest priority on unadjusted quoted market prices in active markets for identical assets or liabilities (Level 1 measurements) and gives the lowest priority to unobservable inputs (Level 3 measurements). The three levels of inputs within the fair value hierarchy are defined as follows:

Level 1: Quoted prices (unadjusted) for identical assets or liabilities in active markets that the Plan has the ability to access.

Level 2: Significant other observable inputs other than Level 1 prices such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data.

Level 3: Significant unobservable inputs that reflect the Plan's own assumptions about the assumptions that market participants would use in pricing an asset or liability.

In some cases, a valuation technique used to measure fair value may include inputs from multiple levels of the fair value hierarchy. The lowest level of significant input determines the placement of the entire fair value measurement in the hierarchy.

Certain investments are measured at fair value on a recurring basis in the statements of net assets available for benefits. The following methods and assumptions were used to estimate the fair values:

Mutual funds, common stock and other investments — These investments are classified as Level 1 and consist of various publicly-traded money market funds, mutual funds, common stock and other investments. Common stock is valued at quoted market prices. Shares of mutual funds are valued at quoted market prices, which represent the NAV of shares held by the Plan at period-end, and are actively traded.

Common/collective trusts — These investments consist of various other collective investment trust funds. The underlying investments in these collective investment trust funds primarily include intermediate and long-term debt securities, corporate debt securities, equity securities and fixed income securities. The overall fair value of the common/collective trusts are valued at NAV, which is based on the fair value of the underlying securities owned by the fund and divided by the number of shares outstanding.

The fair values of the Plan's investments measured at fair value on a recurring basis and their respective level within the fair value hierarchy as of December 31, 2018 and 2017 were as follows:

	December 31, 2018			
	Quoted Prices in Active Markets for Identical Assets	Significant Other Observable Inputs	Significant Unobservable Inputs (Level 3)	Total
Pentair plc common stock	$ 61,467,061	$ —	$ —	$ 61,467,061
nVent Electric plc common stock	38,533,229	—	—	38,533,229
Interest-bearing cash	306,804	—	—	306,804
Mutual funds:				
Blended funds	44,522,810	—	—	44,522,810
Growth funds	10,167,800	—	—	10,167,800
Value funds	68,683,268	—	—	68,683,268
International funds	30,353,683	—	—	30,353,683
Net investments in fair value hierarchy	254,034,655	—	—	254,034,655
Investments valued at NAV				705,213,107
Total investments at fair value	$ 254,034,655	$ —	$ —	$ 959,247,762

	December 31, 2017			
	Quoted Prices in Active Markets for Identical Assets	Significant Other Observable Inputs	Significant Unobservable Inputs (Level 3)	Total
Pentair plc common stock	$ 129,662,345	$ —	$ —	$ 129,662,345
Interest-bearing cash	1,688,372	—	—	1,688,372
Mutual funds:				
Blended funds	45,279,005	—	—	45,279,005
Growth Funds	9,888,332	—	—	9,888,332
Value funds	96,600,430	—	—	96,600,430
International funds	46,198,065	—	—	46,198,065
Net assets in fair value hierarchy	329,316,549	—	—	329,316,549
Investments valued at NAV				860,000,994
Total investments at fair value	$ 329,316,549	$ —	$ —	$ 1,189,317,543

Transfers Between Levels — The availability of observable market data is monitored to assess the appropriate classification of financial instruments within the fair value hierarchy. Changes in economic conditions or model-based valuation techniques may require the transfer of financial instruments from one fair value level to another. In such instances, the transfer is reported at the beginning of the reporting period.

We evaluate the significance of transfers between levels based upon the nature of the financial instrument and size of the transfer relative to total net assets available for benefits. For the years ended December 31, 2018 and 2017, there were no transfers between levels.

5. FEDERAL INCOME TAX STATUS

The Internal Revenue Service ("IRS") has determined and informed the Company by a letter dated August 27, 2015, that the Plan was designed in accordance with applicable regulations of the IRC. The Plan has been amended since receiving the determination letter. However, the Company and Plan management believe that the Plan is currently designed and operated in compliance with the applicable requirements of the IRC, and the Plan continues 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 (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress. The Plan administrator believes it is no longer subject to income tax examinations for years prior to 2015.

6. EXEMPT PARTY-IN-INTEREST TRANSACTIONS

Certain Plan investments are stable value funds and shares of mutual funds managed by Fidelity. Fidelity is the trustee and recordkeeper as defined by the Plan. These transactions qualify as exempt party-in-interest transactions. Fees paid by the Plan for investment management services were included as a reduction of the return earned on each fund.

At December 31, 2018 and 2017, the Plan held 1,626,974 and 1,836,057 shares, respectively, of common stock of Pentair plc, the parent of the Company, with a cost basis of $40,309,937 and $66,222,327, respectively. During the year ended December 31, 2018, the Plan recorded dividend income of $1,619,110 with respect to the common stock of Pentair plc.

7. PLAN TERMINATION

Although it has not expressed any intention 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 set forth in ERISA.

8. RECONCILIATION OF FINANCIAL STATEMENTS TO FORM 5500

As of December 31, 2018 and 2017, reconciliation of net assets available for benefits per the financial statements to the Form 5500 was as follows:

	2018	2017
Net assets available for benefits per the financial statements	$ 974,471,073	$ 1,215,747,525
Add: Adjustment from contract value to fair value for fully benefit-responsive investment contracts	(1,214,810)	(237,038)
Less: Cumulative deemed distributions of participant loans	(682,244)	(679,506)
Net assets available for benefits per Form 5500	$ 972,574,019	$ 1,214,830,981

For the year ended December 31, 2018, reconciliation of the change in net assets available for benefits per the financial statements to the Form 5500 was as follows:

	2018
Change in net assets available for benefits per the financial statements	$ (241,276,452)
Add: Current year adjustment from contract value to fair value for fully benefit-responsive investment contracts	(1,214,810)
Less: Prior year adjustment from contract value to fair value for fully benefit-responsive investment contracts	237,038
Less: Change in cumulative deemed distributions of participant loans	(2,738)
Change in net assets available for benefits per Form 5500	$ (242,256,962)

* * * * * *

9. SUBSEQUENT EVENTS

In April 2018, the Company completed the separation of its Electrical business from the rest of Pentair plc and its consolidated subsidiaries (the "Separation") by means of a dividend in specie of the Electrical business, which was effected by the transfer of the Electrical business from Pentair to nVent Electric plc ("nVent") and the issuance by nVent of ordinary shares directly to Pentair shareholders (the "Distribution"). On January 30, 2019, in connection with the Separation and Distribution and in accordance with the Employee Matters Agreement between Pentair plc and nVent, $424,191,697 in assets were transferred from the Plan into the newly formed nVent defined contribution plan.

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SUPPLEMENTAL SCHEDULE FURNISHED PURSUANT TO THE REQUIREMENTS OF FORM 5500

PENTAIR, INC. RETIREMENT SAVINGS AND STOCK INCENTIVE PLAN **(EIN: 41-0907434)**
(Plan #002)

FORM 5500, SCHEDULE H, PART IV LINE 4i — SCHEDULE OF ASSETS (HELD AT END OF YEAR)
AS OF DECEMBER 31, 2018

Description	Cost		Current Value
COMMON/COLLECTIVE TRUSTS:			
JPMorgan SmartRetirement Passive Blend Income Fund	*	$	13,816,648
JPMorgan SmartRetirement Passive Blend 2020 Fund	*		52,289,002
JPMorgan SmartRetirement Passive Blend 2025 Fund	*		60,952,974
JPMorgan SmartRetirement Passive Blend 2030 Fund	*		57,382,978
JPMorgan SmartRetirement Passive Blend 2035 Fund	*		41,111,281
JPMorgan SmartRetirement Passive Blend 2040 Fund	*		32,295,872
JPMorgan SmartRetirement Passive Blend 2045 Fund	*		20,398,621
JPMorgan SmartRetirement Passive Blend 2050 Fund	*		23,992,065
JPMorgan SmartRetirement Passive Blend 2055 Fund	*		11,324,576
JPMorgan SmartRetirement Passive Blend 2060 Fund	*		1,467,956
Fidelity Growth Company [1]	*		146,779,475
Legal & General US Total Stock Market Index	*		112,160,227
Legal & General International Developed Index	*		1,454,386
BlackRock Total Return	*		21,782,010
Principal Diversified Real Asset Inst	*		656,358
Total common collective trusts		$	597,864,429
REGISTERED INVESTMENT COMPANIES:			
Oakmark Fund	*		51,742,555
Dodge & Cox International Stock	*		28,082,506
Fidelity US Bond Index [1]	*		4,308,446
Victory Integrity Small Cap Value Fund R6	*		16,940,712
Hartford International Small Company	*		2,271,178
AMG Times Square Small Cap Growth Fund	*		40,214,364
Vanguard International Growth Fund Adm	*		10,167,800
Total registered investment companies		$	153,727,561
INTEREST-BEARING CASH			
Vanguard Federal Money Market	*	$	278,751
Vanguard Prime Money Market ADM	*		28,053
Total interest-bearing cash		$	306,804
PENTAIR PLC COMPANY STOCK FUND:			
Pentair plc common stock [1]	*	$	61,467,061
nVENT ELECTRIC PLC COMPANY STOCK FUND:			
nVent Electric plc common stock	*	$	38,533,229
STABLE VALUE FUND			
Fidelity Managed Income Portfolio II, CL 4 [1]	*	$	107,348,678
NOTES RECEIVABLE FROM PARTICIPANTS, LESS DEEMED DISTRIBUTIONS [1] [2]	*	$	12,523,866
TOTAL		$	971,771,628

(1) Party-in-interest.

(2) Interest rates range from 3.25% to 11.50%. Maturity dates range from 2019 to 2033.

* Cost information is not required for participant-directed investments and, therefore, is not included.

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

Part I Annual Report Identification Information

For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018

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.)
- [x] 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:
- [x] Form 5558
- [ ] automatic extension
- [ ] the DFVC program
- [ ] special extension (enter description)

Part II Basic Plan Information—enter all requested information

1a Name of plan
Pentair, Inc. Retirement Savings and Stock

1b Three-digit plan number (PN) ▶ 002

1c Effective date of plan 01/01/1984

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)
Pentair, Inc.

5500 Wayzata Boulevard, Suite 900

Golden Valley MN 55416-1261

2b Employer Identification Number (EIN) 41-0907434

2c Plan Sponsor's telephone number (763)545-1730

2d Business code (see instructions) 551112

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			Diana Solomon, Sr. Dir Glo Benefits
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			Mark C. Borin, CFO
	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.

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 and ending

A Name of plan	**B** Three-digit plan number (PN) ▶
C Plan sponsor's name as shown on line 2a of Form 5500	**D** Employer Identification Number (EIN)

Part I Asset and Liability Statement

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

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

			(a) Beginning of Year	**(b)** End of Year
1d	Employer-related investments:			
	(1) Employer securities	**1d(1)**		
	(2) Employer real property	**1d(2)**		
e	Buildings and other property used in plan operation	**1e**		
f	Total assets (add all amounts in lines 1a through 1e)	**1f**		
	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 through1j)	**1k**		
	Net Assets			
l	Net assets (subtract line 1k from line 1f)	**1l**		

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)**		
	(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)**		
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)		
(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		
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)		
(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)		
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)		
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)		
(4) Other	2i(4)		
(5) Total administrative expenses. Add lines **2i(1)** through **(4)**	2i(5)		
j Total expenses. Add all **expense** amounts in column (b) and enter total	2j		
Net Income and Reconciliation			
k Net income (loss). Subtract line **2j** from line **2d**	2k		
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: **(2)** EIN:

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	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.)	4a			
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)	4b			

			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.)	4c			
d	Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)	4d			
e	Was this plan covered by a fidelity bond?	4e			
f	Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	4f			
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?	4g			
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?	4h			
i	Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	4i			
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.)	4j			
k	Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?	4k			
l	Has the plan failed to provide any benefit when due under the plan?	4l			
m	If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	4m			
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.)

Attachment to 2018 Form 5500
Schedule H, line 4i - Schedule of Assets (Held at End of Year)

Plan Name Pentair, Inc. Retirement Savings and Stock **EIN:** 41-0907434
Plan Sponsor's Name Pentair, Inc. **PN:** 002

(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
	JPMCB SR PB INC CF			13,816,648
	JPMCB SR PB 2020 CF			52,289,002
	JPMCB SR PB 2025 CF			60,952,974
	JPMCB SR PB 2030 CF			57,382,978
	JPMCB SR PB 2035 CF			41,111,281
	JPMCB SR PB 2040 CF			32,295,872
	JPMCB SR PB 2045 CF			20,398,621

Attachment to 2018 Form 5500
Schedule H, line 4i - Schedule of Assets (Held at End of Year)

Plan Name Pentair, Inc. Retirement Savings and Stock **EIN:** 41-0907434
Plan Sponsor's Name Pentair, Inc. **PN:** 002

(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
	JPMCB SR PB 2050 CF			23,992,065
	JPMCB SR PB 2055 CF			11,324,576
	FID GROWTH CO POOL			146,779,475
	PIF DVRSD RA CIT T1			656,358
	OAKMARK FUND			51,742,555
	BTC TOTAL RETURN			21,782,010
	DODGE & COX INTL STK			28,082,506

Attachment to 2018 Form 5500
Schedule H, line 4i - Schedule of Assets (Held at End of Year)

Plan Name Pentair, Inc. Retirement Savings and Stock **EIN:** 41-0907434
Plan Sponsor's Name Pentair, Inc. **PN:** 002

(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
	VANG VMMR-FED MMKT			278,751
	VI SM-CAP VAL R6B			16,940,712
	HTFD INTL SM CO Y			2,271,178
	FID US BOND IDX PR			4,308,446
	AMG TS SM CP GTH IS			40,214,364
	VANG INTL GROWTH ADM			10,167,800
	JPMCB SR PB 2060 CF			1,467,956

Attachment to 2018 Form 5500
Schedule H, line 4i - Schedule of Assets (Held at End of Year)

Plan Name Pentair, Inc. Retirement Savings and Stock **EIN:** 41-0907434
Plan Sponsor's Name Pentair, Inc. **PN:** 002

(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
*	PENTAIR PLC COMMON STOCK			61,467,061
	NVENT ELECTRIC PLC COMMON STOCK			38,533,229
*	FID MIP II, CL 4			107,348,678
*	PARTICIPANT PROMISSORY NOTE LOANS	INTEREST RATES FROM 3.25% TO 11.50% MATURITY DATES RANGE FROM 2019 TO 2033		12,523,866
	RT L&G MSCI EAFE A			1,454,386
	RT L&G RUSSELL 3000			112,160,227
	VANG VMMR-PRIME MMKT ADM			28,053