Peltz Matthew H. Form 4 June 01, 2018

FORM 4

OMB APPROVAL

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16. Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

January 31, Expires: 2005 Estimated average

Form 5 obligations

SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,

burden hours per response... 0.5

may continue. See Instruction

Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Peltz Matthew H.

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol

PENTAIR plc [PNR]

(Check all applicable)

(First) (Middle) (Last)

(Street)

3. Date of Earliest Transaction (Month/Day/Year)

X_ Director 10% Owner Officer (give title Other (specify

280 PARK AVENUE 05/30/2018

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year)

Applicable Line)

Form filed by One Reporting Person _X_ Form filed by More than One Reporting

Person

below)

NEW YORK, NY 10017

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 4. Securities Acquired (A) or 5. Amount of

Security (Month/Day/Year) Execution Date, if (Instr. 3) (Month/Day/Year)

TransactionDisposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)

(A)

or

(D)

Price

7. Nature of Securities Ownership Indirect Beneficially Form: Beneficial Owned Direct (D) Ownership Following or Indirect (Instr. 4) Reported

Code V Amount Transaction(s) (Instr. 3 and 4)

(Instr. 4)

Common (Ordinary)

 $S^{(1)}$ 1,675,000 05/30/2018 D 44.135

Please see 13,736,582 explanation

Common (Ordinary)

Shares

Shares -2,862 D Restricted

Stock Units

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of SEC 1474 information contained in this form are not

(9-02)

below (2) (3)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Titl	e and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration D	ate	Amou	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ties	(Instr. 5)	Bene
	Derivative				Securities			(Instr.	3 and 4)		Owne
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amaunt		
						Date	Expiration				
						Exercisable	Date				
				Code V	(A) (D)						
				Code V	4, and 5)		•	Title	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships						
•	Director	10% Owner	Officer	Other			
Peltz Matthew H. 280 PARK AVENUE NEW YORK, NY 10017	X						
TRIAN FUND MANAGEMENT, L.P. 280 PARK AVENUE NEW YORK, NY 10017	X						

Signatures

Daniel R. Marx, Attorney-In-Fact for Matthew H. Peltz

06/01/2018

**Signature of Reporting Person

Date

Daniel R. Marx, Attorney-In-Fact for Edward P. Garden, member of the general partner of Trian Fund Management, L.P.

06/01/2018

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) The sale reported in this Form 4 was done for portfolio management purposes.
- (2) Trian Fund Management, L.P ("Trian Management") serves as the management company for Trian Partners, L.P., Trian Partners Master Fund, L.P., Trian Partners Parallel Fund I, L.P., Trian Partners Strategic Investment Fund II, L.P., Trian Partners Strategic Investment Fund-A, L.P., Trian Partners Strategic Investment Fund-D, L.P., Trian Partners Fund (Sub)-G, L.P., Trian Partners Strategic Fund-G II, L.P., Trian Partners Strategic Fund-K, L.P.

Reporting Owners 2

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and Trian Partners Strategic Fund-C, Ltd. (collectively, the "Trian Entities") and as such determines the investment and voting decisions of the Trian Entities with respect to the shares of the Issuer held by them.

(3) (FN 2, contd.) Mr. Peltz is a limited partner of certain affiliates of the Trian Entities and Trian Management and therefore may be deemed to have an indirect interest in the shares which they hold. The Reporting Persons disclaim beneficial ownership of such shares except to the extent of their respective pecuniary interests therein and this report shall not be deemed an admission that the Reporting Persons are the beneficial owner of such securities for purposes of Section 16 or for any other purpose. Mr. Peltz is a director of the Issuer.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.