PENTAIR plc Form SC 13D/A May 10, 2016

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

SCHEDULE 13D Under the Securities Exchange Act of 1934

(Amendment No. 5)\*

PENTAIR PLC (Name of Issuer)

Ordinary Shares, nominal value \$0.01 per share (Title of Class of Securities)

> G7S00T 104 (CUSIP Number)

Brian L. Schorr, Esq. Trian Fund Management, L.P. 280 Park Avenue, 41 st Floor New York, New York 10017 Tel. No.: (212) 451-3000

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

May 10, 2016 (Date of Event Which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition which is the subject of this Schedule 13D, and is filing this schedule because of \$ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box [].

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

### Edgar Filing: PENTAIR plc - Form SC 13D/A

The Information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1		AME OF REPORTING PERSON S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON elson Peltz				
2	CHECK THE APPRO	OPRIATE BOX IF A M	IEMBER OF A GROUP	(a) [_] (b) [_]		
3	SEC USE ONLY					
4	SOURCE OF FUNDS					
5		CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)				
6	CITIZENSHIP OR PL United States	CITIZENSHIP OR PLACE OF ORGANIZATION Jnited States				
BENEFIC	BER OF SHARES CIALLY OWNED BY EPORTING PERSON WITH	7	SOLE VOTING POWER 0			
		8	SHARED VOTING POWER 14,335,888			
		9	SOLE DISPOSITIVE POWER 0			
		10	SHARED DISPOSITIVE POWER 14,335,888			
11	AGGREGATE AMO	UNT BENEFICIALLY	OWNED BY EACH REPORTING PERSON			
	14,335,888					

- 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN [] SHARES
- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

7.93%\*

#### 14 TYPE OF REPORTING PERSON IN

\*Calculated based on 180,716,339 ordinary shares outstanding as of March 31, 2016, as reported in the Issuer's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016 (the "Form 10-Q").

1		NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Peter W. May				
2	CHECK THE APPRC	PRIATE BOX IF A M	EMBER OF A GROUP	(a) [_] (b) [_]		
3	SEC USE ONLY					
4	SOURCE OF FUNDS AF					
5		CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)				
6	CITIZENSHIP OR PI United States	CITIZENSHIP OR PLACE OF ORGANIZATION United States				
BENEFIC	BER OF SHARES CIALLY OWNED BY EPORTING PERSON WITH	7	SOLE VOTING POWER 0			
		8	SHARED VOTING POWER 14,335,888			
		9	SOLE DISPOSITIVE POWER 0			
		10	SHARED DISPOSITIVE POWER 14,335,888			
11						

- 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 14,335,888
- 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN [] SHARES
- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 7.93%\*
- 14 TYPE OF REPORTING PERSON IN

1	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Edward P. Garden					
2	CHECK THE APPRC	PRIATE BOX IF A MI	EMBER OF A GROUP	(a) [_] (b) [_]		
3	SEC USE ONLY					
4	SOURCE OF FUNDS AF					
5		CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)				
6	CITIZENSHIP OR PL United States	CITIZENSHIP OR PLACE OF ORGANIZATION United States				
BENEFIC	BER OF SHARES CIALLY OWNED BY EPORTING PERSON WITH	7	SOLE VOTING POWER 0			
		8	SHARED VOTING POWER 14,335,888			
		9	SOLE DISPOSITIVE POWER 0			
		10	SHARED DISPOSITIVE POWER 14,335,888			
11	AGGREGATE AMO 14,335,888	UNT BENEFICIALLY	OWNED BY EACH REPORTING PERSON			

- 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN [] SHARES
- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 7.93%\*
- 14 TYPE OF REPORTING PERSON

1	NAME OF REPORTI Trian Fund Manageme				
	S.S. OR I.R.S. IDENT 20-3454182	TIFICATION NO. OF A	BOVE PERSON		
2	CHECK THE APPRO	OPRIATE BOX IF A MI	EMBER OF A GROUP	(a) [_] (b) [_]	
3	SEC USE ONLY				
4	SOURCE OF FUNDS AF				
5		CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)			
6	CITIZENSHIP OR PI Delaware	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware			
BENEFI	IBER OF SHARES CIALLY OWNED BY REPORTING PERSON WITH	7	SOLE VOTING POWER 0		
		8	SHARED VOTING POWER 14,335,888		
		9	SOLE DISPOSITIVE POWER 0		
		10	SHARED DISPOSITIVE POWER 14,335,888		

- 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 14,335,888
- 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN [] SHARES
- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 7.93%\*
- 14 TYPE OF REPORTING PERSON PN

1	NAME OF REPORTING PERSON Trian Fund Management GP, LLC				
	S.S. OR I.R.S. IDENT 20-3454087	TFICATION NO. OF A	BOVE PERSON		
2	CHECK THE APPRO	PRIATE BOX IF A MI	EMBER OF A GROUP	(a) [_] (b) [_]	
3	SEC USE ONLY				
4	SOURCE OF FUNDS AF				
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)				
6	CITIZENSHIP OR PL Delaware	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware			
BENEFIC	BER OF SHARES CIALLY OWNED BY EPORTING PERSON WITH	7	SOLE VOTING POWER 0		
		8	SHARED VOTING POWER 14,335,888		
		9	SOLE DISPOSITIVE POWER 0		
		10	SHARED DISPOSITIVE POWER 14,335,888		
11	AGGREGATE AMOU 14,335,888	UNT BENEFICIALLY	OWNED BY EACH REPORTING PERSON		

- 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN [] SHARES
- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 7.93%\*
- 14 TYPE OF REPORTING PERSON

### 00

1	NAME OF REPORTI Trian Partners Master					
	S.S. OR I.R.S. IDENT 98-0682467	TIFICATION NO. OF A	BOVE PERSON			
2	CHECK THE APPRC	PRIATE BOX IF A M	EMBER OF A GROUP	(a) [_] (b) [_]		
3	SEC USE ONLY	SEC USE ONLY				
4	SOURCE OF FUNDS WC	SOURCE OF FUNDS WC				
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)					
6	CITIZENSHIP OR PLACE OF ORGANIZATION Cayman Islands					
BENEFIC	BER OF SHARES CIALLY OWNED BY EPORTING PERSON WITH	7	SOLE VOTING POWER 0			
		8	SHARED VOTING POWER 182,740			
		9	SOLE DISPOSITIVE POWER 0			
		10	SHARED DISPOSITIVE POWER 182,740			
11	AGGREGATE AMO 182,740	UNT BENEFICIALLY	OWNED BY EACH REPORTING PERSON			

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 0.10%\*

12

SHARES

[X]

#### 14 TYPE OF REPORTING PERSON PN

1	NAME OF REPORTING PERSON Trian Partners, L.P.					
	S.S. OR I.R.S. IDENT 20-3453988	TIFICATION NO. OF A	ABOVE PERSON			
2	CHECK THE APPRC	PRIATE BOX IF A M	EMBER OF A GROUP	(a) [_] (b) [_]		
3	SEC USE ONLY	SEC USE ONLY				
4	SOURCE OF FUNDS WC					
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)					
6	CITIZENSHIP OR PL Delaware	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware				
BENEFIC	BER OF SHARES CIALLY OWNED BY EPORTING PERSON WITH	7	SOLE VOTING POWER 0			
		8	SHARED VOTING POWER 2,670,342			
		9	SOLE DISPOSITIVE POWER 0			
		10	SHARED DISPOSITIVE POWER 2,670,342			
11	AGGREGATE AMO 2,670,342	UNT BENEFICIALLY	OWNED BY EACH REPORTING PERSON			
12	CHECK BOX IF THE	E AGGREGATE AMO	UNT IN ROW (11) EXCLUDES CERTAIN	[X]		

- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 1.48%\*
- 14 TYPE OF REPORTING PERSON

**SHARES** 

# PN

1	NAME OF REPORTING PERSON Trian Partners Master Fund, L.P.					
	S.S. OR I.R.S. IDENT 98-0468601	TIFICATION NO. OF A	ABOVE PERSON			
2	CHECK THE APPRC	PRIATE BOX IF A M	EMBER OF A GROUP	(a) [_] (b) [_]		
3	SEC USE ONLY	SEC USE ONLY				
4	SOURCE OF FUNDS WC	5				
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)					
6	CITIZENSHIP OR PI Cayman Islands	CITIZENSHIP OR PLACE OF ORGANIZATION Cayman Islands				
BENEFIC	BER OF SHARES CIALLY OWNED BY EPORTING PERSON WITH	7	SOLE VOTING POWER 0			
		8	SHARED VOTING POWER 5,959,332			
		9	SOLE DISPOSITIVE POWER 0			
		10	SHARED DISPOSITIVE POWER 5,959,332			
11	AGGREGATE AMO 5,959,332	UNT BENEFICIALLY	OWNED BY EACH REPORTING PERSON			
12	CHECK BOX IF THE	E AGGREGATE AMO	UNT IN ROW (11) EXCLUDES CERTAIN	[X]		

- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 3.30%\*
- 14 TYPE OF REPORTING PERSON

**SHARES** 

# PN

1	NAME OF REPORTI Trian Partners Parallel					
	S.S. OR I.R.S. IDENT 20-3694154	TIFICATION NO. OF A	BOVE PERSON			
2	CHECK THE APPRC	(a) [_]CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP(b) [_]				
3	SEC USE ONLY	SEC USE ONLY				
4	SOURCE OF FUNDS WC					
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)					
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware					
BENEFIC	BER OF SHARES CIALLY OWNED BY EPORTING PERSON WITH	7	SOLE VOTING POWER 0			
		8	SHARED VOTING POWER 261,894			
		9	SOLE DISPOSITIVE POWER 0			
		10	SHARED DISPOSITIVE POWER 261,894			
11	AGGREGATE AMO 261,894	UNT BENEFICIALLY	OWNED BY EACH REPORTING PERSON			

- 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN [X] SHARES
- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 0.14%\*

#### 14 TYPE OF REPORTING PERSON PN

1	NAME OF REPORTING PERSON Trian Partners Strategic Investment Fund-A, L.P.					
	S.S. OR I.R.S. IDENT 27-4180625	TFICATION NO. OF A	ABOVE PERSON			
2	CHECK THE APPRO	PRIATE BOX IF A M	EMBER OF A GROUP	(a) [_] (b) [_]		
3	SEC USE ONLY	SEC USE ONLY				
4	SOURCE OF FUNDS WC					
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)					
6	CITIZENSHIP OR PL Delaware	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware				
BENEFIC	BER OF SHARES CIALLY OWNED BY EPORTING PERSON WITH	7	SOLE VOTING POWER 0			
		8	SHARED VOTING POWER 2,008,726			
		9	SOLE DISPOSITIVE POWER 0			
		10	SHARED DISPOSITIVE POWER 2,008,726			
11	AGGREGATE AMO 2,008,726	UNT BENEFICIALLY	OWNED BY EACH REPORTING PERSON			
12	CHECK BOX IF THE SHARES	E AGGREGATE AMOU	UNT IN ROW (11) EXCLUDES CERTAIN	[X]		

- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 1.11%\*
- 14 TYPE OF REPORTING PERSON PN

1		VAME OF REPORTING PERSON Frian Partners Strategic Investment Fund-N, L.P.				
	S.S. OR I.R.S. IDEN 80-0958490	TIFICATION NO. OF A	ABOVE PERSON			
2	CHECK THE APPRO	OPRIATE BOX IF A M	IEMBER OF A GROUP	(a) [_] (b) [_]		
3	SEC USE ONLY					
4	SOURCE OF FUNDS WC					
5		CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)				
6	CITIZENSHIP OR PI Delaware	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware				
BENEFI	IBER OF SHARES CIALLY OWNED BY REPORTING PERSON WITH	7	SOLE VOTING POWER 0			
		8	SHARED VOTING POWER 569,800			
		9	SOLE DISPOSITIVE POWER 0			
		10	SHARED DISPOSITIVE POWER 569,800			
11	AGGREGATE AMO 569,800	UNT BENEFICIALLY	Y OWNED BY EACH REPORTING PERSON			
12	CHECK BOX IF THE	E AGGREGATE AMO	UNT IN ROW (11) EXCLUDES CERTAIN	[X]		

- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 0.32%\*
- 14 TYPE OF REPORTING PERSON

SHARES

# PN

1	NAME OF REPORTING PERSON Trian Partners Strategic Investment Fund II, L.P.				
	S.S. OR I.R.S. IDENT 45-4929803	TIFICATION NO. OF A	ABOVE PERSON		
2	CHECK THE APPRO	OPRIATE BOX IF A M	EMBER OF A GROUP	(a) [_] (b) [_]	
3	SEC USE ONLY	SEC USE ONLY			
4	SOURCE OF FUNDS WC				
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)			[_]	
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware				
BENEFIC	BER OF SHARES CIALLY OWNED BY EPORTING PERSON WITH	7	SOLE VOTING POWER 0		
		8	SHARED VOTING POWER 902,609		
		9	SOLE DISPOSITIVE POWER 0		
		10	SHARED DISPOSITIVE POWER 902,609		
11	AGGREGATE AMO 902,609	UNT BENEFICIALLY	OWNED BY EACH REPORTING PERSON		

- 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN [X] SHARES
- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 0.50%\*
- 14 TYPE OF REPORTING PERSON PN

1	NAME OF REPORTING PERSON Trian Partners Strategic Investment Fund-D, L.P.			
	S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON 98-1108184			( ) F J
2	CHECK THE APPRO	OPRIATE BOX IF A M	IEMBER OF A GROUP	(a) [_] (b) [_]
3	SEC USE ONLY			
4	SOURCE OF FUNDS WC			
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)			[_]
6	CITIZENSHIP OR PLACE OF ORGANIZATION Cayman Islands			
NUMBER OF SHARES 7 SOLE VOTING POWER BENEFICIALLY OWNED BY 0 EACH REPORTING PERSON WITH				
		8	SHARED VOTING POWER 446,245	
		9	SOLE DISPOSITIVE POWER 0	
		10	SHARED DISPOSITIVE POWER 446,245	
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 446,245			
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN [X] SHARES			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 0.25%*			

14 TYPE OF REPORTING PERSON PN

1	NAME OF REPORTING PERSON Trian Partners Fund (Sub)-G, L.P.			
	S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON 90-1035117			
2	CHECK THE APPRO	OPRIATE BOX IF A M	EMBER OF A GROUP	(a) [_] (b) [_]
3	SEC USE ONLY			
4	SOURCE OF FUNDS WC			
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)			[_]
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware			
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		7	SOLE VOTING POWER 0	
		8	SHARED VOTING POWER 106,099	
		9	SOLE DISPOSITIVE POWER 0	
		10	SHARED DISPOSITIVE POWER 106,099	
11	AGGREGATE AMO 106,099	UNT BENEFICIALLY	OWNED BY EACH REPORTING PERSON	

- 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN [X] SHARES
- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 0.06%\*
- 14 TYPE OF REPORTING PERSON PN

<sup>\*</sup> Calculated based on 180,716,339 ordinary shares outstanding as of March 31, 2016, as reported in the Issuer's Form 10-Q.

1	NAME OF REPORTING PERSON Trian Partners Strategic Fund-G II, L.P.			
	S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON 46-5509975			
2	CHECK THE APPRO	(a) [_]CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP(b) [_]		
3	SEC USE ONLY			
4	SOURCE OF FUNDS WC			
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)			
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware			
BENEFIC	BER OF SHARES CIALLY OWNED BY EPORTING PERSON WITH	7	SOLE VOTING POWER 0	
		8	SHARED VOTING POWER 361,725	
		9	SOLE DISPOSITIVE POWER 0	
		10	SHARED DISPOSITIVE POWER 361,725	
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 361,725			

- 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN [X] SHARES
- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 0.20%\*

#### 14 TYPE OF REPORTING PERSON PN

1	NAME OF REPORTING PERSON Trian Partners Strategic Fund-G III, L.P.			
	S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON 47-2121971			
2	CHECK THE APPRO	PRIATE BOX IF A M	EMBER OF A GROUP	(a) [_] (b) [_]
3	SEC USE ONLY			
4	SOURCE OF FUNDS WC			
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)			
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware			
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		7	SOLE VOTING POWER 0	
		8	SHARED VOTING POWER 212,365	
		9	SOLE DISPOSITIVE POWER 0	
		10	SHARED DISPOSITIVE POWER 212,365	
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 212,365			

- 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN [X] SHARES
- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 0.12%\*
- 14 TYPE OF REPORTING PERSON PN

1	NAME OF REPORTING PERSON Trian Partners Strategic Fund-K, L.P.			
	S.S. OR I.R.S. IDENT 47-5116069	TIFICATION NO. OF A	ABOVE PERSON	
2	CHECK THE APPRC	PRIATE BOX IF A M	EMBER OF A GROUP	(a) [_] (b) [_]
3	SEC USE ONLY			
4	SOURCE OF FUNDS WC			
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT [_] TO ITEMS 2(d) or 2(e)			
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware			
NUMBER OF SHARES7SOLE VOTING POWERBENEFICIALLY OWNED BY0EACH REPORTING PERSONVITH				
		8	SHARED VOTING POWER 654,011	
		9	SOLE DISPOSITIVE POWER 0	
		10	SHARED DISPOSITIVE POWER 654,011	
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 654,011			
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN [X] SHARES			[X]
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 0.36%*			

14 TYPE OF REPORTING PERSON PN

<sup>\*</sup> Calculated based on 180,716,339 ordinary shares outstanding as of March 31, 2016, as reported in the Issuer's Form 10-Q.

### Edgar Filing: PENTAIR plc - Form SC 13D/A

This Amendment No. 5 amends and supplements the Schedule 13D filed with the Securities and Exchange Commission on June 30, 2015 (the "Original Statement"), as amended by Amendment No. 1 filed on July 13, 2015, as amended by Amendment No. 2 filed on July 29, 2015, as amended by Amendment No. 3 filed on September 8, 2015, and as amended by Amendment No. 4 ("Amendment No. 4") filed on February 22, 2016 (as amended, the "Schedule 13D"), relating to the Ordinary Shares, nominal value \$0.01 per share (the "Shares"), of Pentair plc, an Irish public limited company (the "Issuer"). The address of the principal executive office of the Issuer is P.O. Box 471, Sharp Street, Walkden, Manchester, M28 8BU United Kingdom.

Capitalized terms not defined herein shall have the meanings ascribed to them in the Schedule 13D. Except as set forth herein, the Schedule 13D is unmodified.

Items 4 and 5 of the Schedule 13D are hereby amended and supplemented as follows:

Item 4. Purpose of Transaction

Item 4 of the Schedule 13D is hereby amended and supplemented by adding the following information:

As a result of the shareholders of the Issuer approving at its 2016 annual general meeting of shareholders on May 10, 2016 the Amendment Resolution to increase the maximum number of directors of the Issuer from eleven to twelve, Ed Garden, Chief Investment Officer and a Founding Partner of Trian Management, was appointed as a director of the Issuer and as a member of the Compensation Committee and the Governance Committee of the Board of Directors of the Issuer immediately following the meeting. Mr. Garden was appointed as director of the Issuer pursuant to the terms of the Letter Agreement. Pursuant to the Letter Agreement, Mr. Garden has been attending and participating in all Board of Directors and Compensation Committee meetings in a non-voting participant capacity since September 2015.

Item 5. Interest in Securities of the Issuer

Item 5 of the Schedule 13D is hereby amended and supplemented by adding the following information:

(a) As of 4:00 p.m., New York City time, on May 9, 2016, the Reporting Persons beneficially owned, in the aggregate, 14,335,888 Shares, representing approximately 7.93% of the Issuer's outstanding Shares (calculated based on 180,716,339 ordinary shares outstanding as of March 31, 2016, as reported in the Issuer's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016).

(c) There have been no new transactions by the Reporting Persons since the filing of Amendment No. 4.

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#### SIGNATURE

After reasonable inquiry and to the best of each of the undersigned knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: May 10, 2016

TRIAN FUND	MANAGEMENT, L.P.		
By:	Trian Fund Management GP, LLC, its general partner		
By:	/s/ EDWARD P. GARDEN		
	Name:	Edward P. Garden	
	Title:	Member	
TRIAN FUND	MANAGEMENT GP,	LLC	
By:	/s/ EDWARD P. GARDEN		
	Name:	Edward P. Garden	
	Title:	Member	
TRIAN PART	NERS, L.P.		
By:	Trian Partners GP, L.P., its general partner		
By:	Trian Partners General Partner, LLC, its general partner		
By:	/s/ EDWARD P. GARDEN		
	Name:	Edward P. Garden	
	Title:	Member	
TRIAN PART	NERS MASTER FUND	(ERISA) L.P.	
By:	Trian Partners (ERISA) GP, L.P., its general partner		
By:	Trian Partners (ERISA	A) General Partner, LLC, its general partner	
By:	/s/ EDWARD P. GARDEN		
	Name:	Edward P. Garden	
	Title:	Member	

TRIAN PARTNERS MASTER FUND, L.P.			
By:	Trian Partners GP, L.P., its general partner		
By:	Trian Partners Gener	al Partner, LLC, its general partner	
By:	/s/ EDWARD P. GA Name: Title:	RDEN Edward P. Garden Member	
TRIAN PART	INERS PARALLEL	FUNDLLP	
By:	TNERS PARALLEL FUND I, L.P. Trian Partners Parallel Fund I General Partner, LLC, its general partner		
By:	/s/ EDWARD P. GA	RDEN	
25.	Name: Title:	Edward P. Garden Member	
TRIAN PART	INERS STRATEGIC	INVESTMENT FUND-A, L.P.	
By:		gic Investment Fund-A GP, L.P., its	
By:	Trian Partners Strate Partner, LLC, its gen	gic Investment Fund-A General leral partner	
By:	/s/ EDWARD P. GA	RDEN	
Dy.	Name:	Edward P. Garden	
	Title:	Member	
TRIAN PART	INERS STRATEGIC	INVESTMENT FUND-N, L.P.	
By:		gic Investment Fund-N GP, L.P., its	
By:	Trian Partners Strategic Investment Fund-N General Partner, LLC., its general partner		
By:	/s/ EDWARD P. GA	RDEN	
27.	Name:	Edward P. Garden	
	Title:	Member	

TRIAN PARTI By:	NERS STRATEGIC INVESTMENT FUND II, L.P. Trian Partners Strategic Investment Fund II GP, L.P., its general partner		
By:	Trian Partners Strategic Investment Fund-II General Partner, LLC., its general partner		
By:	/s/ EDWARD P. GARI Name: Title:	DEN Edward P. Garden Member	
TRIAN PARTI	NERS STRATEGIC INV	/ESTMENT FUND-D, L.P.	
By:		c Investment Fund-D GP, L.P., its general	
By:	Trian Partners Strategic Investment Fund-D General Partner, LLC, its general partner		
By:	/s/ EDWARD P. GARI	DEN	
29.	Name:	Edward P. Garden	
	Title:	Member	
	NERS FUND (SUB)-G, I		
By:	Than Partners investin	ent Fund-G GP, L.P., its general partner	
By:	Trian Partners Investment Fund-G General Partner, LLC, its general partner		
By:	By: /s/ EDWARD P. GARDEN		
	Name:	Edward P. Garden	
	Title:	Member	

#### TRIAN PARTNERS STRATEGIC FUND-G II, L.P. Trian Partners Strategic Fund-G II GP, L.P., its general partner By: Trian Partners Strategic Fund-G II General Partner, LLC, its By: general partner /s/ EDWARD P. GARDEN By: Edward P. Garden Name: Title: Member TRIAN PARTNERS STRATEGIC FUND-G III, L.P. Trian Partners Strategic Fund-G III GP, L.P., its general partner By: Trian Partners Strategic Fund-G III General Partner, LLC, its By: general partner /s/ EDWARD P. GARDEN By: Edward P. Garden Name Title Member TRIAN PARTNERS STRATEGIC FUND-K, L.P. Trian Partners Strategic Fund-K GP, L.P., its general partner By: Trian Partners Strategic Fund-K General Partner, LLC, its general By: partner /s/ EDWARD P. GARDEN By: Name Edward P. Garden Title Member

/s/NELSON PELTZ Nelson Peltz

/s/PETER W. MAY Peter W. May

/s/EDWARD P. GARDEN Edward P. Garden