FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washing

ton, D.C. 20549	OMB

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Check this box if no longer subje	ct to
Section 16. Form 4 or Form 5	
obligations may continue. See	
Instruction 1(b).	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* DEATON CHAD C				4	2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [APD]									tionship of Reporting all applicable) Director		n(s) to Issue 10% Ow	
(Last) 7201 HA	`	First)	(Middle)		3. Date		t Trans	action (Mo	nth/D	ay/Year)		Officer (below)	ive title		Other (specify below)		
(Street) ALLEN		A State)	18195 (Zip)		1. If Am	endment,	Date o	of Original	iled ((Month/Day/	Year)	Line	Form file	ed by One	Repor	Check Applicating Person One Reportion	
		Т	able I - Non-D	Derivat	tive S	ecuriti	es Ac	quired,	Dis	posed of	, or Ben	eficially	Owned				
Date			Transact ate lonth/Day		2A. Deemed Execution Date, if any (Month/Day/Yea		e, Transaction Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			Beneficial Owned Fo	es ally Following	6. Owner Form: D (D) or Ir (I) (Instr	Direct II ndirect E r. 4) C	7. Nature of ndirect Seneficial Dwnership	
								Code	v	Amount	(A) or (D)	Price	Reported Transactio (Instr. 3 an	n(s) id 4)			(Instr. 4)
			Table II - De (e.							osed of, o			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	e (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		Derivative E		Date Exercisable and xpiration Date Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)		Date Exercisable		xpiration ate	Title	Amount or Number of Shares		(Instr. 4)	ion(s)		
Phantom Stock ⁽¹⁾	\$0.0000 ⁽²⁾	09/28/2012		A		29.6595		08/08/1988	3) 0	8/08/1988 ⁽³⁾	Common Stock	29.6595	\$83.18	3,884.4	1712	D	

Explanation of Responses:

- 1. Phantom deferred stock units (Units) acquired under the Air Products Stock Account of the issuer's Deferred Compensation Program for Directors, of the Company's Long-Term Incentive Plan (the Plan).
- 2. Not applicable to this security
- 3. These units are payable in the form of shares of common Stock equal in number to the units, at the time elected by the reporting person, which is generally after service on the issuer's Board of Directors ends. Units may be paid in a lump sum or up to ten installments as elected by the reporting person in advance.

Linda M. Svoboda as Attorney in Fact

10/01/2012

** Signature of Reporting Person

Date

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

- * 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.