FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

ington, D.C.	20549		
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OMB APPROVAL

hours per response:

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0.5

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

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* <u>DEATON CHAD C</u>				4	2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [ APD ]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director 10% Owner					
(Last) (First) (Middle) 7201 HAMILTON BOULEVARD			[:	3. Date of Earliest Transaction (Month/Day/Year) 06/30/2013										Officer (g below)	ive title		Other (sp below)	pecify	
(Street) ALLENTOWN PA 18195					4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person					
(City)	()	State)	(Zip)											Form filed by More than One Reporting F			ng Person		
		Т	able I - Non-D	eriva	tive S	ecuriti	es A	cqı	uired, D	isp	osed of,	, or Ben	eficial	ly C	Owned				
1. Title of Security (Instr. 3)  2. Trans: Date (Month/L				ite		Execution if any	A. Deemed execution Date, fany Month/Day/Year		Code (Instr.						5. Amount Securities Beneficially Owned Fol	Form: y (D) or		: Direct II Indirect E str. 4)	7. Nature of Indirect Beneficial Ownership
									Code V	,	Amount	(A) or (D)	Price		Reported Transaction (Instr. 3 and			(li	nstr. 4)
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr.		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amour of Securities Underlying Derivative Securit (Instr. 3 and 4)		Derivative Security		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 Exe	e rcisable	Exp Dat	piration te	Title	Amoun or Numbe of Shar	,		(Instr. 4)			
Phantom Stock <sup>(1)</sup>	\$0.0000 <sup>(2)</sup>	06/30/2013		A		39.1703		08/0	08/1988 <sup>(3)</sup>	08/	/08/1988 <sup>(3)</sup>	Common Stock	39.17	03	\$96.13	5,342.60	051	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).
- 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

07/01/2013

in Fact

\*\* 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.