FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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OMB Number:	3235-0287
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## 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*  DONAHUE MICHAEL J					2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [ APD ]									5. Rela (Check	all applicab Director	ole)	Person	10% Own	ner
(Last) (First) (Middle) 7201 HAMILTON BOULEVARD					3. Date of Earliest Transaction (Month/Day/Year) 06/30/2009									-	Officer (g below)	ive ulle		Other (sp below)	еспу
(Street) ALLEN	FOWN F	PA	18195		If Amendment, Date of Original Filed (Month/Day/Year)							6. Indiv	Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person						
(City)	(:	State)	(Zip)																
			Table I - Non-l	Deriva	ative	Securiti	es A	cqı	ıired, D	isp	osed of	, or Ben	efic	ially O	wned				
1. Title of Security (Instr. 3)  2. Trans. Date (Month/I				ate		Execution if any	2A. Deemed Execution Date if any (Month/Day/Yea		te, Transaction Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4		or and 5)	5. Amount Securities Beneficially Following	-	Form:	Direct II Indirect E tr. 4) C	7. Nature of Indirect Beneficial Ownership	
									Code	V Amount		(A) or (D)	P	rice	ice Reported Transaction (Instr. 3 and				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)	4. Transa Code ( 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount Securities Underlyin 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)	(D)	Date Exe	e rcisable	Ex Da	piration te	Title		ount or nber of ares		(Instr. 4)			
Phantom Stock <sup>(1)</sup>	\$0 <sup>(2)</sup>	06/30/2009		A		124.7174		08/0	8/1988 <sup>(3)</sup>	08/	/08/1988 <sup>(3)</sup>	988 <sup>(3)</sup> Common Stock		4.7174	\$64.845	18,096.4927		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.

## Remarks:

Linda M. Svoboda as Attorney

06/30/2009

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.