FORM 4

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

Washington, D.C. 20549

OMB APPROVAL

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l	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)

## 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*  DONAHUE MICHAEL J						2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [ APD ]									ationship of F all applicab Director Officer (g	le)	Person	(s) to Issuer 10% Owr Other (sp	ner
//UL HAIVILLUN BULLEVARD						3. Date of Earliest Transaction (Month/Day/Year) 06/30/2011									below)	ive and		below)	
(Street) ALLENTOWN PA			18195		4. If An	nendment,	Date	Date of Original Filed (Month/Day/Year)						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-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)  2. Trans Date (Month/I						2A. Deemed Execution Dat if any (Month/Day/Ye		- /	3. Transact Code (In 8)	tion Disposed		ies Acquired (A) o Of (D) (Instr. 3, 4		or and 5)	5. Amount Securities Beneficially Following	Owned (	6. Own Form: (D) or I (I) (Ins	Direct Ir ndirect B r. 4) O	Nature of ndirect eneficial wnership
									Code	Code V		(A) or (D)		rice	Reported Transaction (Instr. 3 and			"	ıstr. 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		3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. )		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)			e and	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)	(D)	Date Exe	e rcisable	Exp Dat	oiration te	Title		ount or nber of ires		(Instr. 4)			
Phantom Stock <sup>(1)</sup>	\$0.0000 <sup>(2)</sup>	06/30/2011		A		130.5271		08/0	08/1988 <sup>(3)</sup>	08/	08/1988 <sup>(3)</sup>	Common Stock	130	0.5271	\$94.84	21,473.	9567	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

07/05/2011

\*\* 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.