FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Sectio obligat	this box if no longer subject to n 16. Form 4 or Form 5 ions may continue. See tion 1(b).
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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 OMB APPROVAL
OMB Number: 3235-0287
Estimated average burden
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1. Name and Address of Reporting Person* <u>Crocco Michael S</u>			2. Issuer Name and Ticker or Trading Symbol <u>AIR PRODUCTS & CHEMICALS INC</u> / <u>DE/</u> [APD]		ionship of Reporting Perso all applicable) Director Officer (give title below)	n(s) to Issuer 10% Owner Other (specify below)
(Last) 7201 HAMILTO			3. Date of Earliest Transaction (Month/Day/Year) 07/28/2009		V.P. and Contro	,
(Street) ALLENTOWN	РА	18195	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indivi Line) X	dual or Joint/Group Filing (Form filed by One Report Form filed by More than (ing Person
(City)	(State)	(Zip)			Person	

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Disposed Code (Instr.		4. Securities Disposed Of			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1130.4)	
Common Stock	07/28/2009		М		100	A	\$28.78	3,155	D		
Common Stock	07/28/2009		S		100	D	\$72.3152	3,055	D		
Common Stock	07/28/2009 ⁽¹⁾		J		169.56	A	\$ <mark>0</mark>	2,473.04	Ι	By RSP ⁽²⁾	

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)		of		6. Date Exercisable and Expiration 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) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (Right to Buy) ⁽³⁾	\$28.78	07/28/2009		М			100	10/01/2002	10/01/2009	Common Stock	100	\$0	0	D	

Explanation of Responses:

1. Transactions not required to be reported since last filing.

2. Shares represented by units of interest in the Company Stock Fund held under the issuer's Retirement Savings Plan.

3. Granted under the Global Employee Stock Option Awards

Remarks:

Linda M. Svoboda as Attorney in Fact 07/28/2009

** 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.