## FORM 4

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

Washington, D	).C. 2	20549
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STATEMENT	<b>OF CHANGES</b>	IN BENEFICIAL	<b>OWNERSHIP</b>

**OMB APPROVAL** OMB Number: Estimated average burden hours per response: 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*  Crocco Michael S				<u>A</u>	2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [ APD ]									pplic recto	able)				
(Last) 7201 HA	`	irst) BOULEVARD	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 10/01/2012								X below) below)  V.P. and Controller					
	TOWN PA		18195		-   4. I -	4. If Amendment, Date of Original Filed (Month/Day/Year)						Lin	ndividual or Joint/Group Filing (Check Applicable e)  X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(City) (State) (Zip)  Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)		2. Transa Date (Month/D	ction	2A. Deemed Execution Day y/Year) if any		A. Deemed execution Date,		ction Instr.	4. Securities Acquired (A)		(A) or	5. A Sec Be	5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price	Tra	Reported Transaction(s) (Instr. 3 and 4)			1	Instr. 4)
Common	ommon Stock 10/01/2			/2012	012			М		5,500	A	\$43.0	3.09 13		3,039		D		
Common Stock 10/01/2			2012	012			F		243	D	\$82.8	.85 12,		,796		D			
Common	Common Stock 10/01/2			/2012	012		F		3,669	D	\$82.8	2.85 9,1		,127		D			
Common Stock 10/0			10/02/2	2012 <sup>(1)</sup>	012 <sup>(1)</sup>			J		144.61	A	\$0.0000	(2)	2,902.53				By RSP <sup>(3)</sup>	
		٦	Γable II								posed of, convertil			Own	ed			·	
Derivative Conversion Date Ex Security or Exercise (Month/Day/Year) if a		3A. Deer Execution if any (Month/I			Transaction Code (Instr.		of		Exerci: on Dat Day/Ye		7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price Deriva Securi (Instr. !		9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ow For Dire or I (I) (	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares						
Stock Option (Right to Buy) <sup>(4)</sup>	\$43.09	10/01/2012			M			5,500	08/08/19	988 <sup>(5)</sup>	10/02/2012	Common Stock	5,500	\$0.000	0(2)	0.0000	)	D	

## **Explanation of Responses:**

- 1. Transactions not required to be reported since last filing.
- 2. Not applicable to this security
- 3. Shares represented by units of interest in the Company Stock Fund held under the issuer's Retirement Savings Plan.
- 4. Employee Stock Options granted under the issuer's Long-Term Incentive Plan.
- 5. These options become exercisable in one-third increments on the first three anniversaries of grant.

Linda M. Svoboda as Attorney 10/02/2012 in Fact

\*\* Signature of Reporting Person

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.