# FORM 4

#### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
-------------	------	-------

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

**OMB APPROVAL** 3235-0287 Estimated average burden hours per response: 0.5

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*  MCGLADE JOHN E					<u>A</u>	2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [ APD ]								ck all applic Directo	able)	10	rson(s) to Issue 10% Owr Other (sp		
(Last) 7201 HA	(Last) (First) (Middle) 7201 HAMILTON BOULEVARD						3. Date of Earliest Transaction (Month/Day/Year) 07/29/2009							below)				,	
(Street) ALLENTOWN PA 18195						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person					
(City)	(S	tate)	(Zip)											Form filed by More than One Reporting Person				ng	
		Tal	ble I - No	on-Der	ivativ	re Se	ecuri	ties Ac	quired	l, Di	sposed o	f, or Ber	neficially	Owned					
, , , , , , , , , , , , , , , , , , ,		2. Transaction Date (Month/Day/Year)		ar)   E	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4		(A) or 3, 4 and 5)		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	t In ct B	7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount	(A) or (D)	Price	Reported Transact (Instr. 3	ion(s)		"	1str. 4)	
Common	Stock			07/29	9/2009	9			M		10,000	A	\$28.78	99,17	74.424	D			
Common Stock 07/2		07/29	/2009	(1)			J		65.34 <sup>(2)</sup>	A	\$0	99,23	99,239.764						
Common Stock		07/29	7/29/2009				S		10,000	D	\$72.31 <sup>(3</sup>	89,23	89,239.764						
Common Stock 0			07/29	0/2009(1)				J		332.39	A	\$0	13,8	13,848.04		B R	y SP <sup>(4)</sup>		
Common Stock 07/29/2				/2009	009(1)			J		0.437(2)	A	\$0	20.	20.143		B	y pouse <sup>(5)</sup>		
			Table II								oosed of, convertil			Owned		,			
1. Title of Derivative Security (Instr. 3)	rative   Conversion   Date rity   or Exercise   (Month/Day/Year)   Execution Date, if any			Transaction Code (Instr.		n of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		9. Numbe derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Owne Form: Direct or Ind (I) (Ins	(D) irect	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	(A)	(D)	Date Exercisa	ble	Expiration Date	Title	Amount or Number of Shares						
Stock Option (Right to	\$28.78	07/29/2009			M			10,000	08/08/19	88 <sup>(7)</sup>	10/02/2009	Common Stock	10,000	\$0	0	I	,		

## **Explanation of Responses:**

- 1. Transactions not required to be reported since last filing.
- 2. Shares acquired with cash dividends under the issuer's Dividend Reinvestment and Direct Stock Purchase and Sale Plan.
- 3. Actual Sale prices ranged from \$72.20 to \$72.41. Details available upon request.
- 4. Shares represented by units of interest in the Company Stock Fund held under the issuer's Retirement Savings Plan.
- 5. Shares owned by spouse as to which the reporting person disclaims beneficial ownership.
- 6. Employee Stock Options granted under the issuer's Long-Term Incentive Plan.
- 7. These options become exercisable in one-third increments on the first three anniversaries of grant.

#### Remarks:

Linda M. Svoboda as Attorney

in Fact

\*\* Signature of Reporting Person

07/30/2009

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.