FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	DVAL					
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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

Name and Address of Reporting Person* MCGLADE JOHN E						2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC DE/ [APD]									all application	able)	Perso	on(s) to Issu 10% Ow Other (sp	ner
(Last) 7201 HA	,	First) BOULEVARD	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 02/24/2011												below)`	,
(Street)	ΓOWN P	Α	_ 4.	If Ame	ndme	ent, Date	of Origi	nal File	ed (Month/Da <u>y</u>		Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting								
(City)	(;	State)	(Zip)												Person				
		Tal	ble I - N	Non-Der	ivativ	e Se	curi	ties A	cquire	ed, Di	isposed o	f, or Be	nefici	ally (Owned				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						Year) if an		A. Deemed Execution Date, f any Month/Day/Year)		action Instr.	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an			5. Amoun Securities Beneficia Owned F Reported		s ally following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		. Nature of ndirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price		Transact (Instr. 3	ion(s)			Instr. 4)
Common Stock 02/2)11			M		75,000	A	\$38.)2	215,2	279.735		D	
Common Stock 02/24					2011)11			S		75,000	D	\$91.04	0498(1) 140,2		79.735		D	
Common Stock															14,2	60.79		I I	By RSP
Common Stock															20.	143			By Spouse
			Table I								posed of, convertil				wned			,	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	e (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Yea		4. Transa Code (8)			Expira	e Exercition Da h/Day/Y		of Secur Underlyi Derivativ	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		. Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Owner Form: Direct or Indi (I) (Ins	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerci	sable	Expiration Date	Title	Amou or Numb of Share	er					
Stock Option (Right to Buy) ⁽²⁾	\$38.02	02/24/2011			M			75,000	08/08/	1988 ⁽³⁾	10/02/2011	Commor Stock	75,00	00	\$0.0000	0.0000)	D	

Explanation of Responses:

- 1. Actual sale prices ranged from \$91.00 \$91.30.
- 2. Employee Stock Options granted under the issuer's Long-Term Incentive Plan.
- 3. These options become exercisable in one-third increments on the first three anniversaries of grant.

<u>Linda M. Svoboda as Attorney</u> in Fact

02/25/2011

** 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.