FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	UIVID APP	ROVAL	
STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP	OMB Number:	3235-	
OTAL EMERIT OF OTAL MODE IN BEINE 100/12 OTAL MODEL	Estimated average hurden		

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

OMB APPROVAL								
OMB Number: 3235-028								
Estimated average burden								
hours per response:	0.5							

Name and Address of Reporting Person*     Dixon Robert D					<u>A</u> ]	2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [ APD ]									all applic Directo	ionship of Reporting all applicable) Director Officer (give title		on(s) to Issu 10% Ow Other (s	ner
(Last) 7201 HA	`	First) BOULEVARD	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 08/13/2009								Λ	below) below) Sr.V.P. and G.M.				
(Street) ALLEN	ΓOWN I		18195 (Zip)		- 4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)								i. Indiv Line) X	Form fi	dual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person			
		Tab	ole I - N	on-Deri	vativ	e Sec	curit	ies Ac	quire	d, Di	sposed o	of, or Be	nefici	ally	Owned				
1. Title of Security (Instr. 3)  2. Transpate		2. Transa	ction	2A. Exe	2A. Deemed Execution Date, if any (Month/Day/Year)		3. 4. S		4. Securitie	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 au			5. Amou Securitie Benefici Owned F	nt of es ally Following	Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price		Transact	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)	
Common Stock (		08/13/	2009				М		1,000	A	\$35	.82	22,08	35.569	D				
Common	Stock			08/13/	2009	Τ			S		1,000	D	\$76.1	48(1)	B <sup>(1)</sup> 21,085.569 D				
Common	Stock														3,844 I By RS			By RSP	
		-	Table II								posed of, convertil				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversior or Exercise Price of Derivative Security	se (Month/Day/Year)		on Date,	4. Transa Code ( 8)	action Instr.	on of i		6. Date Exercisable Expiration Date (Month/Day/Year)		Amount of		of s ng e Securi	S (I	3. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Owr Forr Dire or Ir (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	Amou or Numb of Share	er					
Stock Option (Right to Buy) <sup>(2)</sup>	\$35.82	08/13/2009			M			1,000	08/08/19	88 <sup>(3)</sup>	10/03/2010	Common Stock	1,00	0	\$0	7,500		D	

## **Explanation of Responses:**

- 1. Actual sale prices ranged from \$76.00 to \$76.28. Details are available upon request.
- ${\it 2. Employee Stock Options granted under the issuer's Long-Term Incentive Plan.}$
- 3. These options become exercisable in one-third increments on the first three anniversaries of grant.

## Remarks:

Linda M. Svoboda as Attorney

in Fact

\*\* Signature of Reporting Person Date

08/17/2009

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.