Instruction 1(b).

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

<b>STATEMENT</b>	OF CHANGE	S IN BENEFICIA	L 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 b	urden								
1	hours per response:	0.5								

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1. Name and Address of Reporting Person* <u>Dixon Robert D</u>					<u>A</u>	2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [ APD ]										elationship eck all appli Directo	cable)	g Per	son(s) to Iss 10% O Other (	wner
(Last) 7201 HA	`	First) BOULEVARD	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 08/21/2009										X below)			below)	
(Street) ALLEN	ΓOWN F		18195 (Zip)		4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line	e) <mark>X</mark> Form f Form f	dual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)			2. Trans	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)		(A) or	5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
									Î	Code	v	Amount	(/	A) or D)	Price	Reported Transact (Instr. 3	tion(s)			(Instr. 4)
Common Stock				08/2	1/2009					M		500		Α	\$35.8	2 21,58	35.569	D		
Common Stock				08/2	1/200	2009				S		500	500		\$76.5	21,08	21,085.569		D	
Common Stock														3,844			I	By RSP		
		-	Table II -									osed of, convertil				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	4. Transa Code ( 8)		n of		Exp	oate Exe piration onth/Day	Date	Amount of		int of rities rlying ative Se		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e C S Illy C O (I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Dat Exe	e ercisable		Expiration Date	Title	O N O	umber					
Stock Option (Right to	\$35.82	08/21/2009			M			500	08/0	08/1988	(2)	10/03/2010	Comr		500	\$0	7,000	)	D	

## **Explanation of Responses:**

- 1. Employee Stock Options granted under the issuer's Long-Term Incentive Plan.
- 2. These options become exercisable in one-third increments on the first three anniversaries of grant.

## Remarks:

Buy)(1)

Linda M. Svoboda as Attorney in Fact

08/25/2009

\*\* 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.