## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMEN
obligations may continue. See Instruction 1(b).	Filed

## NT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: 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*  SMITH LAWRENCE S					AI	2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC DE/[APD]									tionship of Reporting all applicable) Director Officer (give title below)		g Person(s) to Issuer  10% Owner  Other (specify below)	
(Last) (First) (Middle) 7201 HAMILTON BOULEVARD						3. Date of Earliest Transaction (Month/Day/Year) 08/04/2011												
(Street) ALLENT	OWN P		18195 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indivi Line) X	vidual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person			
		Tabl	e I - 1	Non-Deriv	/ative	Sec	uritie	s Ac	cquire	ed, Di	isposed o	f, or E	Benefic	ially (	Owne	ed		
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Yell)					Execution (ear) if any		ution Date, /		3. Transaction Code (Instr. 8) 4. Securities Disposed Of				d 5) Secur Bene		ficially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) or (D)	Price		Trans	action(s) 3 and 4)		(111341.4)
Common Stock 08/04/20				011	11			P		1,300	A	\$84.81	84.8163(1)		6,150	D		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
1. Title of Derivative Security (Instr. 3)				Transaction of Code (Instr. Deriva		rative rities ired r osed )	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)				9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	(A)	(D)	Date Exerc	cisable	Expiration Date	Title	or Number of Shares					

## **Explanation of Responses:**

1. Actual purchase prices ranged from \$84.5271 to \$85.0971

Linda M. Svoboda as Attorney 08/05/2011

in Fact

\*\* 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.