FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-0287									
Estimated average burden										

0.5

hours per response:

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

1. Name and Address of Reporting Person* Painter Corning F.					AI	2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [APD]								(Ch	5. Relationship of Reportir (Check all applicable) Director Officer (give title			g Person(s) to Issuer 10% Owner Other (specify		
(Last) (First) (Middle) 7201 HAMILTON BOULEVARD						3. Date of Earliest Transaction (Month/Day/Year) 08/18/2011									X Officer (give title Other (specify below) Senior V.P.					
(Street) ALLEN7 (City)	ALLENTOWN PA 18195				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								Lin	Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)		(Sia		Zip)		<u> </u>														
			Iabi	e I - No	on-Deriv	<i>r</i> ative	Sec	uritie	S AC	quired	i, Dis	sposed o	f, or E	sene	riciai	lly Owne	ea			
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day)						Execution Date,					es Acquired (A) o Of (D) (Instr. 3, 4 a			5) Securi Benef	icially d Following	Form:	Indirect	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
							Code	v	Amount	(A) c (D)	r Pi	ice	Transa	ransaction(s) nstr. 3 and 4)			(111311.4)			
Common Stock 08/18/2						/2011	011			P		1,300	A		76.44	6,	083.27		D	
Common Stock														918.18			I	By RSP		
	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)	2. Conversi or Exerci Price of Derivativ Security	on se	3. Transaction Date (Month/Day/Year)	3A. Deer Execution if any (Month/E			Transaction Code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Exerc ion Da /Day/Y		7. Title and Amount of Securities Underlying Derivative Security (Inst and 4)		1	3. Price of Derivative Security (Instr. 5)	9. Number or derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D or Indirec (I) (Instr.	mership m: ect (D) Indirect	Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable		Expiration Date	Title	Amount or Number of Shares								

Explanation of Responses:

1. All purchases were made in a range between \$76.414 and \$76.46.

<u>/s/ Corning F. Painter</u> <u>08/19/2011</u>

** 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.