FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
l	Estimated average burd	en
l	hours per response:	0.5

	Check this box if no longer subject to							
\neg	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 * $Hilton Michael F$						2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [APD]										5. Relationship of Reportin (Check all applicable) Director Officer (give title			ng Person(s) to Issue 10% Own Other (spe		
(Last) (First) (Middle) 7201 HAMILTON BOULEVARD					3. Date of Earliest Transaction (Month/Day/Year) 10/01/2009											X Officer (give title Offier (specify below) Sr. V.P. and G.M.					
(Street) ALLENTOWN PA 18195 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
		Tab	le I - No	n-Deriv	ative	Se	curiti	es Ac	quirec	l, Dis	posed o	of, o	r Ber	efici	ally (Dwne	ed				
Date					th/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Code	Transaction Code (Instr.					4 and S		5. Amount of Securities Beneficially Owned Following Reported		vnership n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	· v	Amount		(A) or (D)	Price	.	Transa	action(s) 3 and 4)			(Instr. 4)	
Common	′2009 ⁽	2009(1)		J		1.582(2)		A	\$	0	14,087.842			D							
Common Stock 10/01						/2009		F		230		D	\$76.6		6 13,857.842			D			
Common Stock 1					/2009 ⁽¹⁾						162.96		A	\$0		3,430.43			I	By RSP	
		Ta	able II - I								sed of, onvertik					/ned					
L. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	cution Date, Transac			n of Deri	oosed D) tr. 3, 4	Expirat (Month	6. Date Exercisable and Expiration Date Date Expiration Expiration Date Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Pri Deriv Secu (Insti	ative rity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	O F D O (I	0. Ownership orm: Oirect (D) r Indirect) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

- 1. Transactions not required to be reported since last filing.
- 2. Shares acquired with cash dividends under the issuer's Dividend Reinvestment and Direct Stock Purchase and Sale Plan.

Remarks:

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

10/02/2009

Date

III Fact

** 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.