SEC Form 4	
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## FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL 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 APPRC	DVAL
OMB Number:	3235-0287
Estimated average burd	en
hours per response:	0.5

1. Name and Address of Reporting Person <sup>*</sup> Marsland John W		*	2. Issuer Name and Ticker or Trading Symbol <u>AIR PRODUCTS &amp; CHEMICALS INC</u> / <u>DE/</u> [ APD ]		tionship of Reporting Perso all applicable) Director Officer (give title below)	n(s) to Issuer 10% Owner Other (specify below)
	ast) (First) (Middle) 201 HAMILTON BOULEVARD		3. Date of Earliest Transaction (Month/Day/Year) 10/01/2010		Sr. V.P.	below)
(Street) ALLENTOWN	PA	18195	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Filing ( Form filed by One Report Form filed by More than (	ing Person
(City) (	(State)	(Zip)			Person	

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

			•	-	-	-	-			
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code ( 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	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	Transaction(s) (Instr. 3 and 4)		(1130.4)
Common Stock	10/01/2010		F		244	D	\$83.26	10,833	D	
Common Stock	10/01/2010		F		366	D	\$83.02	10,467	D	
Common Stock	10/01/2010 <sup>(1)</sup>		J		81.23	A	<b>\$0.0000</b> <sup>(2)</sup>	927.49	Ι	By RSP <sup>(3)</sup>

#### 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. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of Deriv Secu Acqu (A) or Dispo of (D) (Instr	of Expiration Date (Month/Day/Year) Acquired (A) or Disposed of (D) (Instr. 3, 4		of Expiration D. Derivative (Month/Day/ Securities Acquired (A) or Disposed		Expiration Date		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)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares						

Explanation of Responses:

1. Transactions not required to be reported since last filing.

2. Not applicable to this security

3. Shares represented by units of interest in the Company Stock Fund held under the issuer's Retirement Savings Plan.

### Linda M. Svoboda as Attorney <u>in Fact</u> <u>10/04/2010</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.