FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20

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	OMB APPROVAL

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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

1. Name and Address of Reporting Person* BAEZA MARIO					2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/									Relationship of Reporting Person(s) to Issuer (Check all applicable)						
BAEZ	A MARIO	<u>J</u>			APD		0 0 1		<u> </u>		101120	111072		X	Director			10% Ow	ner	
(Last) (First) (Middle)				_ [-								_		Officer (g below)	(give title		Other (specify below)		
7201 HAMILTON BOULEVARD					3. Date of Earliest Transaction (Month/Day/Year) 03/31/2010															
(Street)	rown i	PA	18195		4. If Amendment, Date of Original Filed (Month/Day/Year)								. Individual or Joint/Group Filing (Check Applicable ine)							
ALLENTOWN IN 10133														X	, , ,					
(City)	(State)	(Zip)												Form file	ed by More	e than C	One Reporti	ng Person	
		Т	able I - Non-D	erivat	tive S	ecuriti	es A	cqu	iired, D	isp	osed of	, or Ben	eficia	lly (Owned					
Da				Transaction te onth/Day/Year)		2A. Deemed Execution Dat if any (Month/Day/Ye		е,			es Acquired (A) or Of (D) (Instr. 3, 4 ar		and 5) Securities Beneficia Owned Fe		v	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Direct I Indirect E tr. 4)	. Nature of ndirect Beneficial Ownership		
									Code V		Amount	(A) or (D) Pri		•	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
	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)	Code (Instr.				6. Date Exercisable and Expiration Date (Month/Day/Year)				7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)		Date Exer	e rcisable	Ex Da	piration te	Title	Amour or Number of Sha	er		(Instr. 4)				
Phantom Stock ⁽¹⁾	(2)	03/31/2010		A		39.3349		08/0	8/1988 ⁽³⁾	08	/08/1988 ⁽³⁾	Common Stock	39.33	349	\$0	7,829.4	708	D		

Explanation of Responses:

- 1. Phantom deferred stock units (Units) acquired under the Air Products Stock Account of the issuer's Deferred Compensation Program for Directors, of the Company's Long-Term Incentive Plan (the Plan).
- 2. Not applicable to this security
- 3. These units are payable in the form of shares of common Stock equal in number to the units, at the time elected by the reporting person, which is generally after service on the issuer's Board of Directors ends. Units may be paid in a lump sum or up to ten installments as elected by the reporting person in advance.

Remarks:

Linda M. Svoboda as Attorney

in Fact

04/01/2010

** 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.