FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287
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0.5

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	Check this box if no longer subject to
١	Section 16. Form 4 or Form 5
J	obligations may continue. See
	Instruction 1(b).

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				AI	2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [APD]								Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
(Last) (First) (Middle) 7201 HAMILTON BOULEVARD						3. Date of Earliest Transaction (Month/Day/Year) 01/28/2010								Officer below)	Officer (give title below)		Other (specification)	pecify
(Street)			18195		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line	i. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(:	State)	(Zip)		<u> </u>													
			ble I - Nor			_				l, Dis	_							
1. Title of Security (Instr. 3) 2. Transidate (Month/I			saction n/Day/Year)		2A. Deemed Execution Dat if any (Month/Day/Ye		Code (Instr.					5. Amour Securitie Beneficia Owned F	s Illy ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Direct Indirect Etr. 4)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price	Reported Transacti (Instr. 3 a	ion(s)			(Instr. 4)	
			Table II -						. ,		osed of, convertib		•	Owned			,	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	ate Execution Da	Code (Inst					6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title an Amount o Securities Underlyin Derivative (Instr. 3 ar	f g Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Co	ode ,	v	(A)		Date Exercisab		expiration Date	Title	Amount or Number of Shares					
Phantom Stock	\$0 ⁽¹⁾	01/28/2010			A		1,299	(08/08/198	3 ⁽²⁾ 0	8/08/1988 ⁽²⁾	Common	1,299	\$77.04	7,790.13	59	D	

Explanation of Responses:

- 1. Not applicable to this security
- 2. 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

01/29/2010

<u>in Fact</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.