FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

gton, D.C. 20549	OMB APPROVAL
	OND ALL ROYAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 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* FAIRBAIRN URSULA F					2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [APD]								ationship of k all applical Director	Reporting Person(s) to Issuer ole) 10% Owner			
(Last) 7201 HA	•	First) BOULEVARD	(Middle)	[:	3. Date of Earliest Transaction (Month/Day/Year) 12/31/2009								Officer (g below)	give title		Other (s _l below)	pecify
(Street)	TOWN P.	A	18195		4. If Amendment, Date of Original Filed (Month/Day/Year)							Line)	ndividual or Joint/Group Filing (Check Applicable) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(5	State)	(Zip)		Potiti illed L									u by More	- unan c	one report	ig i cison
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				te		2A. Deemed Execution Date if any (Month/Day/Ye		te, Transaction Dis		on Disposed (Securities Acquired (A) or sposed Of (D) (Instr. 3, 4 a				6. Owr Form: (D) or (I) (Ins	Direct Indirect Etr. 4)	7. Nature of Indirect Beneficial Ownership
								Co	ode V	Amount	(A) or (D)	Price	Transactio (Instr. 3 an				(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		3A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr.		Derivative		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)	e es ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Code	v	(A)		Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)			
Phantom Stock ⁽¹⁾	\$0 ⁽²⁾	12/31/2009		A		40.8752		08/08/1	1988 ⁽³⁾	08/08/1988 ⁽³⁾	Common Stock	40.8752	\$82.605	7,544.2	2036	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).
- 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 01/04/2010

in Fact

** 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.