FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

ashington,	D.C.	20549	
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STATEMENT	OF CHANGE	S IN BENEF	FICIAL C	WNERS	HIP

OIVID APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

Check this box if no longer subject to 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*				2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/						5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
DAVIS WILLIAM L				- 13	[APD]						X	Director		10% Owner		ner	
(Loot)		First)	(Middle)	— L	-								Officer (g	give title		Other (sp below)	ecify
(Last) (First) (Middle) 7201 HAMILTON BOULEVARD				3. Date of Earliest Transaction (Month/Day/Year) 12/31/2010						20.011)			20.011)				
(Street)	TOWN I	PA	18195		4. If Amendment, Date of Original Filed (Month/Day/Year)					Line)	,				cable		
												X		,		ing Person One Reportii	na Person
(City)	(State)	(Zip)										1 OIIII IIIC	u by Word	uiaii c	one reporti	ig i cison
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
Date				action 2A. Deemed Execution Date, if any (Month/Day/Year		e, 1	Code (Instr.			5. Amount Securities Beneficiall Owned Fol	Form: y (D) or		: Direct In Indirect B str. 4) O	. Nature of ndirect Beneficial Ownership			
						G	Code V	Amount	(A) or (D)	Price	Reported Transactio (Instr. 3 an				(Instr. 4)		
			Table II - De							posed of, , convertib			wned				
1. Title of Derivative Conversion Security (Instr. 3) 2. Conversion Date (Month/Day/Year) (Instr. 3) 3. Transaction Date Execution Date, if any (Month/Day/Year)			Transaction Code (Instr. 8)		Derivative Ex		. Date Exercisable and xpiration 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 Exerc	cisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	on(s)		
Phantom Stock ⁽¹⁾	\$0.0000(2)	12/31/2010		A		53.1498		08/08	B/1988 ⁽³⁾	08/08/1988 ⁽³⁾	Common Stock	53.1498	\$91.25	9,950.94	441	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.

Linda M. Svoboda as Attorney

01/03/2011

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.