FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

neck this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
obligations may continue. See	
Instruction 1(b).	Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* DONAHUE MICHAEL J (Last) (First) (Middle)					A1 /D	AIR PRODUCTS & CHEMICALS INC DE/ [APD] 3. Date of Earliest Transaction (Month/Day/Year)											ationship of Reporting call applicable) Director Officer (give title below)		10% Ov Other (s below)	vner
(Street)	ENTOWN PA 18195					08/05/2009 4. If Amendment, Date of Original Filed (Month/Day/Year)										ndividual or Joint/Group Filing (Check Applicable) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(:	•	(Zip)	n-Deriv	vative	e Sec	curit	ies Ac	auir	ed. D	isr	osed o	of, or Be	enefic	cially	Owned				
1. Title of Security (Instr. 3) 2. Transport Date (Month/L				saction	ction 2A. Deemed			, 3. Tr	3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4) or 5. Am 4 and Secur Benef Owne		nt of es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
						C	ode V		Amount	(A) o	r Pri	ce	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)			
Common Stock 0				08/0	5/2009	9				М		2,000) A	\$4	45.91	2,	,000		D	
Common	Stock			08/0	7/2009	9				S		2,000) D	!	\$75		0	D		
		٦	Table II -										, or Ber ble sec			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deem Executior if any (Month/Da	Date,		Transaction Code (Instr.		umber vative urities uired or oosed O) tr. 3, 4 5)	Expir	te Exerc ation Day/\ th/Day/\	ate	ble and	Amount of Securities Underlying Derivativ	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exerc	cisable		xpiration ate	Title	Amor or Num of Shar	ber					
Stock Option (Right to	\$45.91	08/05/2009			M			2,000	07/24	4/2002	01	1/25/2012	Common Stock	2,00	00	\$0	0		D	

Explanation of Responses:

1. Director Stock Options granted under the Issuer's Stock Option Program for Directors under the Company's Long-Term Incentive Plan.

Remarks:

Linda M. Svoboda as Attorney

08/07/2009

** 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.