FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

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

1. Name and Address of Reporting Person* SMITH KENNETH M							2. Issuer Name and Ticker or Trading Symbol POLYONE CORP [POL]									all app	olicable)		Issuer Owner r (specify	
(Last) (First) (Middle) POLYONE CENTER 33587 WALKER ROAD						3. Date of Earliest Transaction (Month/Day/Year) 03/02/2007									X	belov				
(Street) AVON LAKE OH 44012 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									. Indiv ine) X	´				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Day/Year) i		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Transaction Code (Instr.					4 and Secu Bene Own		cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount		(A) or (D) Price		,	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common Stock 03/02/						2007			I		2,290		A	\$6.55		27,322		I	Savings Plan Trust ⁽¹⁾	
Common Stock																4	0,775	D		
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		ır) if any	cution Date, Ti		saction of De Se Ac (A) Dis of (In an		osed) :. 3, 4	6. Date E Expiratio (Month/D	n Date ay/Ye	•	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amount or Numbe of Shares		nstr. 3 nount mber			9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	

Explanation of Responses:

1. The information in this report is based on a PolyOne Retirement Savings Plan statement as of March 2, 2007. PolyOne common shares are held in a unitized fund that consists of stock and cash. The number of shares and the amount of cash may fluctuate daily depending on plan level activity in the fund. The amount of securities beneficially owned following the transfer of shares into the PolyOne stock fund reflects a decrease of 196 shares since the last report filed by the reporting person.

By: Wendy C. Shiba Power of Attorney For: Kenneth M.

03/05/2007

Smith

** 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.

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