FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHA	NGES IN BENEFIC	IAL 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* Kahler Michael E						2. Issuer Name and Ticker or Trading Symbol POLYONE CORP [POL]										all app Dired Offic	olicable) etor er (give title	Oth	Owner er (specify
(Last) (First) (Middle) POLYONE CENTER 33587 WALKER ROAD						3. Date of Earliest Transaction (Month/Day/Year) 03/02/2007									Sr. VP Commercial Development				
(Street) AVON LAKE OH 44012 (City) (State) (Zip)				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(5		le I - Noi	n-Deriv	ative	Se	curitie	es Ac	auired.	Dis	posed o	of. or	Bene	fici	ally	Owne	ed e		
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)		ar)	2A. Deemed Execution Date,		3. Transa Code (3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	Ownership	
								Code	v	Amount		(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)	
Common Stock				03/02/2007		7			P		700		A	\$6.74		5,792		D	
Common Stock			03/02/2007						1,400)	A	\$6.75		7,192		D			
Common Stock			03/02/2007				P	P			A	\$6.76		7,292		D			
Common Stock 03				03/02	03/02/2007				P	P 2,) A		\$6	.77	7 9,492		D	
Common	mmon Stock			03/02	03/02/2007				P		600		A	\$6.78		10,092		D	
Common Stock																2,538		I	Savings Plan Trust ⁽¹⁾
		Ta	able II - I (-		-	sed of, onvertib				-	vned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution if any	Execution Date, if any		4. Transaction Code (Instr. B)		of E		. Date Exercisa xpiration Date Month/Day/Yea		Amo Secu Und Deri	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Deri Secu	rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)
						v			Date Exercisal	ble I	Expiration Date	Title	Amo or Num of Shar	ber	r				

Explanation of Responses:

1. The information in this report is based on a PolyOne Retirement Savings Plan statement as of December 31, 2006. 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. Even though no transaction has occured, this fluctuation may result in an increase or decrease in the number of shares held since the last report filed by the reporting person.

> Michael E. Kahler 03/05/2007

** 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.