FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-028								
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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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

					or Sec	ction 30(l	n) of the	Investn	nent C	om	pany Act o	of 1940)							
1. Name and Address of Reporting Person* WALTERMIRE THOMAS A				2. Issuer Name and Ticker or Trading Symbol POLYONE CORP [POL]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
WALIE	RIVIIRE	THUMAS A							_	•					X	Direc	ctor		10% O	wner
(Last)	(Fi	rst) (Middle)		3 Date	Date of Earliest Transaction (Month/Day/Year)								\dashv	X	Office	cer (give title		Other (below)	specify
(Last) (First) (Middle) POLYONE CENTER					03/16/2005										CEO and President					
33587 W	ALKER RO	JAD												_						
					4. If Ar	mendmer	nt, Date o	of Origi	nal File	ed ((Month/Da	ay/Year)		Indiv ne)	idual o	r Joint/Group	o Filino	g (Check A	pplicable
(Street) AVON LAKE OH 44012														-	X	Form filed by One Reporting Person				
AVON LA	AKE UI	H 4	14012													Form filed by More than One Reporting				ortina
,																Pers				
(City)	(St	tate) (Zip)																	
		Tabl	e I - Non	-Deriva	tive S	ecurit	es Ac	quire	d, Di	sp	osed o	f, or	Ben	eficia	ally (Owne	ed			
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				2A. Deemed Execution Date, if any (Month/Day/Year)		Co	Transaction Code (Instr.							5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	n: Direct or Indirect	7. Nature of Indirect Beneficial Ownership		
									de V		Amount	1)	A) or D)	Price		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
Common S	Stock			03/16	/2005			G	,	7	530		D	\$	0	20	04,562		D	
Common S	Stock									41,388 I				I	Savings Plan Trust ⁽¹⁾					
		Та	ble II - D								sed of, onvertib				y Ov	vned				
	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution		Date, Transact		on of		e Exerc ation D h/Day/`	ate		le and 7. Title Amou Secur Under Derive Secur and 4		str. 3		vative durity S r. 5) E F F	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D or Indire (I) (Instr.	Ownership Form:	11. Nature of Indirect Beneficial Ownership (Instr. 4)
													Am	ount						

Explanation of Responses:

1. The information in this report is based on a PolyOne Retirement Savings Plan statement dated as of December 31, 2004. 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 occurred, this fluctuation may result in an increase or decrease in the number of shares held since the last report filed by the reporting person.

(D)

Date Exercisable

Date

By: Wendy C. Shiba, Power of
Attorney For: Thomas A. 03/2

03/21/2005

Waltermire

Title

** Signature of Reporting Person Date

Number of

Shares

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).

Code

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.