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UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

## SCHEDULE 13G

Under the Securities exchange Act of 1934

(Amendment No. 0)\*

POLYONE CORP

(NAME OF ISSUER)

COM NEW

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(TITLE OF CLASS OF SECURITIES)

73179P106

\_\_\_\_\_

(CUSIP NUMBER)

December 31, 2011

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(Date of event which requires filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

X Rule 13d-1(b) Rule 13d-1(c) Rule 13d-1(d)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be 'filed' for the purpose of Section 18 of the Securities Exchange Act of 1934 ('Act') or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

(CONTINUED ON FOLLOWING PAGE(S))

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1. NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

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	A	llianceBernstein LP	13-3434400	
2.	CHEC	K THE APPROPRIATE BO	X IF A MEMBER OF A GROUP *	(A) [ ] (B) [X]
3.	SEC	USE ONLY		
4.		ZENSHIP OR PLACE OF e of Delaware	ORGANIZATION	
			5. SOLE VOTING POWER	4,785,790
			6. SHARED VOTING POWER	0
			7. SOLE DISPOSITIVE POWER	5,535,560
		REPORTING PERSON WITH:	8. SHARED DISPOSITIVE POW	ER 71,720
9.		EGATE AMOUNT BENEFIC RTING PERSON	IALLY OWNED BY EACH	5,607,280
	(Not	to be construed as	an admission of beneficial	ownership)
10.	CHEC SHAR		TE AMOUNT IN ROW (9) EXCLU	DES CERTAIN [X]
11.	PERC	ENT OF CLASS REPRESE	NTED BY AMOUNT IN ROW 9	6.2%
12.	TYPE IA	OF REPORTING PERSON	*	
		* SEE INS	TRUCTIONS BEFORE FILLING O	UT!
CUSI	P NO.	73179P106	13G	Page 3 of 5 Pages
Item	1(a)	Name of Issuer: POLYONE CORP		
Item	1(b)	Address of Issuer's 33587 Walker Road Avon Lake, OH 44012	Principal Executive Offic	es:
Item	2(a)	and (b) Name of Person Fili	ng and Address of Principa	l Business Office:
		AllianceBernstein L 1345 Avenue of the . NewYork, N.Y. 1010	Americas	
(212	2-969	-2301) with any ques	ontact John Meyers at Alli tions. All other questions entano@AllianceBernstein.c	can be directed to

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Item 2(c) Citizenship: Delaware

Item 2(d) Title of Class of Securities: COM NEW

Item 2(e) Cusip Number: 73179P106

Item 3. Type of Reporting Person: Registered Investment Advisor

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Item 4. Ownership as of 12/31/2011

- (a) Amount Beneficially Owned: 5,607,280 shares of common stock acquired solely for investment purposes on behalf of client discretionary investment advisory accounts\*
- (b) Percent of Class: 6.2%
- (c) Deemed Voting Power and Disposition Power:

(i)	(ii)	(iii)	(iv)
Deemed	Deemed	Deemed	Deemed
to have	to have	to have	to have
Sole Power	Shared Power	Sole Power	Shared Power
to Vote	to Vote	to Dispose	to Dispose
or to	or to	or to	or to
Direct	Direct	Direct the	Direct the
the Vote	the Vote	Disposition	Disposition

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AllianceBernstein 4,785,790 0 5,535,560 71,720
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\*AllianceBernstein L.P. is a majority owned subsidiary of AXA Financial, Inc. and an indirect majority owned subsidiary of AXA SA. AllianceBernstein operates under independent management and makes independent decisions from AXA and AXA Financial and their respective subsidiaries and AXA and AXA Financial calculate and report beneficial ownership separately from AllianceBernstein pursuant to guidance provided by the Securities and Exchange Commission in Release Number 34-39538 (January 12, 1998).

AllianceBernstein may be deemed to share beneficial ownership with AXA reporting persons by virtue of 71,720 shares of common stock acquired on behalf of the general and special accounts of the affiliated entities for which AllianceBernstein serves as a subadvisor. Each of AllianceBernstein and the AXA entities reporting herein acquired their shares of common stock for investment purposes in the ordinary course of their investment management and insurance businesses.

Item 5. Ownership of Five Percent or Less of a Class: If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following.

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Item 6. Ownership of More than Five Percent on behalf of Another Person. N/A

Item 7. Identification and Classification of the Subsidiary which Acquired the Security Being Reporting on by the Parent Holding Company: N/A

Item	8.	Identification	and Classi	fication	of	Members	of	the	Group.	N/A
Item	9.	Notice of Diss	solution of	Group:						N/A

Item 10. Certification:

By signing below I certify that to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purposes or effect.

## Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 14, 2012, ALLIANCEBERNSTEIN L.P.

/s/ Laurence Bertan

Name: Laurence Bertan Title: SVP and Head of Regulatory Reporting