FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL	
CIVID 7 II T TO WILE	
OMB Number:	3235-0287
Estimated average burden	
hours per response:	0.5
	Estimated average burden

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 Section	n 30(h) of the	Investmen	nt Comp	any Act of	1940							
1. Name and Address of Reporting Person* Petrarca Mark A				2. Issuer Name and Ticker or Trading Symbol SMITH A O CORP [AOS]								5. Relati (Check a	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
												l x	Director Officer (give titl	a balaus			ecify below)	
(Last) (Fi	rct)	(Mi	ddlo)										^					city below)
(Last) (First) (Middle) A. O. SMITH CORPORATION				Date of Earliest Transaction (Month/Day/Year) 02/09/2012									Senior Vice Pres H.R. & P.A					
	IN				02/03/20	12												
11270 WEST PARK PLACE																		
(Street)				4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individ	6. Individual or Joint/Group Filing (Check Applicable Line)					
MILWAUKEE W	т	533	224									X	X Form filed by One Reporting Person					
	•													Form filed by More than One Reporting Person				
(City) (Si	ate)	(Zip))															
(5.9)	,	(=-r	•															
			Т	able I -	Non-Deri	vative Se	curities A	cquired,	Disp	osed of	, or Bene	ficially Ow	ned					
2. The or occurry (main o)				2. Transacti Date (Month/Day	Execu	eemed ition Date,	3. Transaction Code (Instr. 8) 4. Securi 3, 4 and		rities Acquired (A) or Disposed Of (D 5)		d Of (D) (Instr.	D) (Instr. 5. Amount of Securit Beneficially Owned I Reported Transactio		ollowing Direct (D) or		7. Nature of Indirect Beneficial Ownership (Instr.		
				(WOIIII/Day	(Mont	h/Day/Year)	Code	v	Amount	(A) or (D) Price		Price	(Instr. 3 and 4)		(5 4)		4)	
Common Stock					02/09/2012			М		6,3	300 ⁽¹⁾ A \$4		\$45.588	26,825	26,825		D	
Common Stock				02/10/2	02/10/2012		S		2,7	703(2)	D	\$45.588	24,122	24,122		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	Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa (Instr. 8)	ction Code	Securities A	mber of Derivative rities Acquired (A) or osed of (D) (Instr. 3, 4)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Derivative Security (Instr. 3 and 4		rities Underlying and 4)	8. Price of Derivative Security (Instr 5)	9. Numb derivativ Securiti Benefici Owned Followir	ve es ially	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisa	able D	xpiration ate	Title		Amount or Number of Sha	ares	Reporte Transac (Instr. 4)	tion(s)		
Restricted Stock Units	(1)	02/09/2012		М			6,300	(1)	Т	(1)	Comn	non Stock	6,300	\$0	6,9	000	D	

Explanation of Responses:

- 1. 6,300 Restricted Stock Units were granted on 02/09/2009, under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3. 6,300 Restricted Stock Units vested on 02/09/2012. As of result of vesting, the Company is obligated to deliver 6,300 shares of Common Stock to the reporting person.
- 2. The reporting person sold these shares to obtain funds to pay the withholding taxes due as a result of the vesting of the restricted stock units described in footnote (1).

Remarks:

James F. Stern, Attorney-in-Fact for Mark A. 02/10/2012

** 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.

POWER OF ATTORNEY

Know all by these presents, that, for good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, the undersigned revokes the Powe (1) execute for and on behalf of the undersigned (in accordance with Section 16(a) of the Securities Exchange Act of 1934, as amended, and the rules thereunder (the (2) do and perform any and all acts for and on behalf of the undersigned that may be necessary or desirable to complete and execute any such Documents and timely fil (3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best in the undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary or this Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Documents with respect to the undersigned's holdings

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 9th day of February, 2012.

/s/Mark A. Petrarca