FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Washington, D.C. 20040

l	OMB APPRO	VAL							
	OMB Number:	3235-0287							
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l	hours per response:	0.5							

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 30(h) of the Investment Company Act of 1940

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

							٠,											
1. Name and Address of Reporting Person* Petrarca Mark A					2. Issuer Name and Ticker or Trading Symbol SMITH A O CORP [AOS]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify				
	.ast) (First) (Middle) .O. SMITH CORPORATION 1270 WEST PARK PLACE						of Earliest	Tran	saction (Mon	th/Day/	Year)		helow)	below) Senior Vice Pres)		
(Street) MILWAUKEE WI 53224					4. If Amendment, Date of Original Filed (Month/Day/Year)								Lin	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	City) (State) (Zip)									. 0.00.	1 013011							
		Tab	le I - Nor	-Deriv	ative	Se	curities	s Ac	quired, D	ispos	ed c	of, or Be	neficia	lly Owned	i			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					ar) i	2A. Deemed Execution Date, if any (Month/Day/Year		r, Transaction Disp Code (Instr. 5)			curities Acquired (A) osed Of (D) (Instr. 3,		Benefici	es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
							Code V	' Ar	nount	(A) o (D)	r Price	Transac (Instr. 3	tion(s)		(Instr. 4)			
		Т							uired, Dis s, options					/ Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	4. Transa Code (I 8)				6. Date Exerc Expiration D. (Month/Day/	ate	and	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D or Indirec (I) (Instr.	Beneficial Ownership t (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable	Expira Date	ation	Title	Amount or Number of Shares					
Employee Stock Options (Right to Buy)	\$41.895	02/08/2010			A		7,600		(1)	02/08	/2020	Common Stock	7,600	\$0	47,600	D		
Restricted Stock Units	\$41.895	02/08/2010			A		2,800		(2)	(2)	Common Stock	2,800	\$0	13,300	D		

Explanation of Responses:

- 1. The employee stock options were granted on 02/08/2010 under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3. The options become exercisable in three annual installments of 1/3 of the award starting on 02/08/2011.
- 2. The restricted stock units were granted on 02/08/2010 under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3. The restricted stock units become payable in Common Stock on the vesting date of 02/08/2013.

Remarks:

<u>James F. Stern, Attorney-in-</u> <u>Fact for Mark A. Petrarca</u>

02/10/2010

** 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.