SEC Form 4	
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## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	Check this box if no longer subject to
Ľ	Section 16. Form 4 or Form 5
	obligations may continue. See
	Instruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burde	en							
hours per response:	0.5							

1. Name and Address of Reporting Person <sup>*</sup> Petrarca Mark A			2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>SMITH A O CORP</u> [ AOS ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify
	(First) Η CORPORATIOI Γ PARK PLACE	(Middle) <mark>N</mark>	3. Date of Earliest Transaction (Month/Day/Year) 02/09/2010	A below) below) Senior Vice Pres H.R. & P.A
(Street) MILWAUKE	EE WI	53224 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	<ul> <li>6. Individual or Joint/Group Filing (Check Applicable Line)</li> <li>X Form filed by One Reporting Person</li> <li>Form filed by More than One Reporting Person</li> </ul>

## Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

Table 1 Hon bervarve debannes Abquirea, Disposed of, of Beneficially Office										
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.					5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
				v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)
Common Stock	02/09/2010		М		3,200	A	\$42.82	8,899	D	
Common Stock	02/09/2010		F		1,095	D	\$42.82	7,804	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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of Expira		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Phantom Stock	(1)	02/09/2010		М			3,200	(1)	(1)	Common Stock	3,200	\$0	10,100	D	

Explanation of Responses:

1. 3,200 shares of phantom stock were granted on February 9, 2007, under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3. The 3,200 shares of phantom stock vested on February 9, 2010. As a result of vesting, the Company is obligated to deliver 3,200 shares of Common Stock to the reporting Person.

**Remarks:** 

## James F. Stern, Attorney-in-02/11/2010

\*\* Signature of Reporting Person

Fact for Mark A. Petrarca

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.