

Petrarca Mark A  
Form 4  
February 18, 2011

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
Expires: January 31, 2005  
Estimated average burden 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).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Petrarca Mark A

(Last) (First) (Middle)

A. O. SMITH  
CORPORATION, 11270 WEST  
PARK PLACE

(Street)

MILWAUKEE, WI 53224

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
SMITH A O CORP [AOS]

3. Date of Earliest Transaction  
(Month/Day/Year)  
02/17/2011

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
Senior Vice Pres. - H.R. & P.A

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				(A) or (D)	Price		
Common Stock	02/17/2011		M	11,700	A \$ 25.837	32,225	D
Common Stock	02/17/2011		M	11,250	A \$ 23.76	43,475	D
Common Stock	02/17/2011		S	7,579	D \$ 42.6	35,896	D
Common Stock	02/17/2011		S	1,991	D \$ 42.61	33,905	D
Common Stock	02/17/2011		S	2,700	D \$ 42.62	31,205	D

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Common Stock	02/17/2011	S	3,121	D	\$ 42.63	28,084	D
Common Stock	02/17/2011	S	1,000	D	\$ 42.64	27,084	D
Common Stock	02/17/2011	S	1,350	D	\$ 42.65	25,734	D
Common Stock	02/17/2011	S	1,038	D	\$ 42.66	24,696	D
Common Stock	02/17/2011	S	696	D	\$ 42.67	24,000	D
Common Stock	02/17/2011	S	1,600	D	\$ 42.68	22,400	D
Common Stock	02/17/2011	S	838	D	\$ 42.69	21,562	D
Common Stock	02/17/2011	S	537	D	\$ 42.7	21,025	D
Common Stock	02/17/2011	S	500	D	\$ 42.71	20,525	D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474  
(9-02)

**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. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	Amount or Number of Shares	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Employee Stock Options (Right to Buy)	\$ 25.837	02/17/2011		M	11,700	<u>(1)</u>	02/09/2017	Common Stock	11,700
Employee Stock	\$ 23.76	02/17/2011		M	11,250	<u>(2)</u>	02/11/2018	Common Stock	11,250

Options  
(Right to  
Buy)

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Petrarca Mark A A. O. SMITH CORPORATION 11270 WEST PARK PLACE MILWAUKEE, WI 53224			Senior Vice Pres. - H.R. & P.A	

## Signatures

James F. Stern, Attorney-in-Fact for Mark A.  
Petrarca

02/18/2011

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

- \* 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).
- (1) The employee stock options were granted on 02/09/2007, under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under rule 16b-3. The options became exercisable in three annual installments of 1/3 of the award starting on 02/08/2008.
- (2) The employee stock options were granted on 02/11/2008, under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under rule 16b-3. The options became exercisable in three annual installments of 1/3 of the award starting on 02/11/2009.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.