

Petrarca Mark A
Form 4
August 10, 2010

FORM 4

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

OMB APPROVAL

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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)
08/09/2010

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	08/09/2010		M	5,500	A \$ 24.64	13,304	D
Common Stock	08/09/2010		M	4,500	A \$ 29.2	17,804	D
Common Stock	08/09/2010		S	77	D \$ 55.24	17,727	D
Common Stock	08/09/2010		S	2,500	D \$ 55.27	15,227	D
Common Stock	08/09/2010		S	1,000	D \$ 55.28	14,227	D

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Common Stock	08/09/2010	S	200	D	\$ 55.29	14,027	D
Common Stock	08/09/2010	S	1,800	D	\$ 55.3	12,227	D
Common Stock	08/09/2010	S	700	D	\$ 55.31	11,527	D
Common Stock	08/09/2010	S	2,100	D	\$ 55.32	9,427	D
Common Stock	08/09/2010	S	453	D	\$ 55.33	8,974	D

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

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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 (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	
Employee Stock Options (Right to Buy) ⁽¹⁾	\$ 24.64	08/09/2010		M	5,500	10/11/2005	10/12/2014	Common Stock	5,500
Employee Stock Options (Right to Buy) ⁽²⁾	\$ 29.2	08/09/2010		M	4,500	<u>(2)</u>	10/11/2015	Common Stock	4,500

Reporting Owners

Reporting Owner Name / Address

Relationships

Reporting Owners

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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

Kenneth J. Maciolek, Attorney-in-Fact for Mark A.
Petrarca

08/10/2010

__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 October 12, 2004, under the A. O. Smith Combined Executive Incentive Compensation Plan, a transaction exempt under Rule 16b-3.

The employee stock options were granted on October 11, 2005, under the A. O. Smith Combined Executive Incentive Compensation
- (2) Plan, a transaction exempt under Rule 16b-3. The options became exercisable in three annual installments of 1/3 of the award starting on October 10, 2006.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.
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