FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

			or Section 30(h) of the Investment Company 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]		ationship of Reporting Pe all applicable) Director Officer (give title	rson(s) to Issuer 10% Owner Other (specify			
A. O. SMITH CORPORATION		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 08/09/2010	A	Senior Vice Pres	below) H.R. & P.A			
(Street) MILWAUKEE (City)	MILWAUKEE WI 53224		4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	vidual or Joint/Group Filir Form filed by One Rep Form filed by More that Person	porting Person			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									

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	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
	Code V Amount (A) or (D) Price		Price	Transaction(s) (Instr. 3 and 4)		(iii3ti. 4)				
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	
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	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	(5.9.) pane, came, come, come common														
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 Deri Sec Acq (A) (Disp of (I	rivative curities quired lor sposed (D) str. 3, 4		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				
Employee Stock Options (Right to Buy) ⁽¹⁾	\$24.64	08/09/2010		М			5,500	10/11/2005	10/12/2014	Common Stock	5,500	\$0	22,200	D	
Employee Stock Options (Right to Buy) ⁽²⁾	\$29.2	08/09/2010		M			4,500	(2)	10/11/2015	Common Stock	4,500	\$0	17,700	D	

Explanation of Responses:

- 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.
- 2. The employee stock options were granted on October 11, 2005, under the A. O. Smith Combined Executive 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 October 10, 2006.

Remarks:

Kenneth J. Maciolek, Attorneyin-Fact for Mark A. Petrarca

^{**} Signature of Reporting Person

** 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.

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