FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
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5. Relationship of Reporting Person(s) to Issuer

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

1. Name and Address of Reporting Person

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

2. Issuer Name and Ticker or Trading Symbol

Petrarca Mark A			SMI	TH A O COI	<u> </u>	AOS]	X	Director Officer (give title below)	10% C Other below	(specify		
(Last) (First) (Middle) A. O. SMITH CORPORATION 11270 WEST PARK PLACE			3. Date of Earliest Transaction (Month/Day/Year) 02/17/2011							Senior Vice Pres H.R. & P.A			
(Street) MILWAUKEE	WI	4. If Ar	mendment, Date of	Origina	I Filed	l (Month/Day/\	6. Indi Line) X	·					
(City)	(State)	(Zip)	n Dorive	 	Securities Acq		Die	nacad of	ar Par	eficially.	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	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	Transaction(s) (Instr. 3 and 4)		(moa. 4)
Common Stock			02/17/2	2011		М		11,700	A	\$25.837	32,225	D	
Common Stock			02/17/2	2011		M		11,250	A	\$23.76	43,475	D	
Common Stock			02/17/2	2011		S		7,579	D	\$42.6	35,896	D	
Common Stock			02/17/2	2011		S		1,991	D	\$42.61	33,905	D	
Common Stock			02/17/2	2011		S		2,700	D	\$42.62	31,205	D	
Common Stock			02/17/2	2011		S		3,121	D	\$42.63	28,084	D	
Common Stock			02/17/2	2011		S		1,000	D	\$42.64	27,084	D	
Common Stock			02/17/2	2011		S		1,350	D	\$42.65	25,734	D	

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

S

S

S

S

S

S

1,038

696

1,600

838

537

500

D

D

D

D

D

D

\$42.66

\$42.67

\$42.68

\$42.69

\$42.7

\$42.71

24,696

24,000

22,400

21,562

21,025

20,525

02/17/2011

02/17/2011

02/17/2011

02/17/2011

02/17/2011

02/17/2011

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 Seci Acq (A) o Disp of (E	vative urities uired or oosed O) (Instr. and 5)	6. Date Exerc Expiration Da (Month/Day/\)	ate	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)	\$25.837	02/17/2011		M			11,700	(1)	02/09/2017	Common Stock	11,700	\$0	51,600	D	
Employee Stock Options (Right to Buy)	\$23.76	02/17/2011		M			11,250	(2)	02/11/2018	Common Stock	11,250	\$0	40,350	D	

Explanation of Responses:

Common Stock

Common Stock

Common Stock

Common Stock

Common Stock

Common Stock

- 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.

Remarks:

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

02/18/2011

** 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.