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 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 I	burden							

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hours per response:	0.5
1	

1. Name and Addres Petrarca Marl	ss of Reporting Perso	n*	2. Issuer Name and Ticker or Trading Symbol <u>SMITH A O CORP</u> [ AOS ]	5. Rela (Check	son(s) to Issuer 10% Owner		
(Last) (First) (Middle) A. O. SMITH CORPORATION			3. Date of Earliest Transaction (Month/Day/Year) 02/11/2011	- x	Officer (give title below) Senior Vice Pres ]	Other (specify below) H.R. & P.A	
11270 WEST PARK PLACE (Street) MILWAUKEE WI 53224 (City) (State) (Zip)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	vidual or Joint/Group Filing (Check Applicable 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) (Month/		3. Transaction Code (Instr. 8)		4. Securities A Disposed Of (			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	02/11/2011		М		4,650(1)	A	\$42.2197	22,434	D	
Common Stock	02/11/2011		S		1,909 <sup>(2)</sup>	D	\$42.2197	20,525	D	

 

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

D S	. Title of erivative ecurity nstr. 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)		n of		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				
S	estricted tock nits	(1)	02/11/2011		М			4,650	(1)	(1)	Common Stock	4,650	\$0	13,200	D	

### Explanation of Responses:

1. 4,650 Restricted Stock Units were granted on 02/11/2008, under the A. O. Smith Combined Incentive Compensation Plan, a transaction excempt under Rule 16b-3. 4,650 Restricted Stock Units vested on 02/11/2011. As of result of vesting, the Company is obligated to deliver 4,650 shares of Common Stock to the reporting person.

2. The reporting person sold these shares to obtain funds to pay the withholding taxes due as a result of the vesting of the restricted stock units described in footnote (1).

#### **Remarks:**

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

02/14/2011

Date

\*\* Signature of Reporting Person

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.