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).
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## 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 APPRO	IVAL
OMB Number:	3235-0287
Estimated average burde	en
hours per response:	0.5

1. Name and Add	ress of Reporting Pe <u> <b>FERRY M</b></u>	erson <sup>*</sup>	2. Issuer Name and Ticker or Trading Symbol <u>SMITH A O CORP</u> [ AOS ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner
	) (First) (Mic D. SMITH CORPORATION 70 WEST PARK PLACE		3. Date of Earliest Transaction (Month/Day/Year) 02/09/2010	X Officer (give title Other (specify below) below) Executive Vice President & CFO
(Street) MILWAUKEE (City)	WI (State)	53224 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X 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)			4. Securities Disposed Of 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	Transaction(s) (Instr. 3 and 4)		
Common Stock	02/09/2010		М		6,400	Α	\$42.82	18,905	D	
Common Stock	02/09/2010		F		2,637	D	\$42.82	16,268	D	

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. Transa Code ( 8)		of Deri Seci Acq (A) o Disp of (E (Inst	. Number f berivative ccquired A) or bisposed f (D) instr. 3, 4 nd 5)		on Date Amount of		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				
Phantom Stock	(1)	02/09/2010		М			6,400	(1)	(1)	Common Stock	6,400	\$0	15,700	D	

Explanation of Responses:

1. 6,400 shares of phantom stock were granted on February 9, 2007, under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3. The 6,400 shares of phantom stock vested on February 9, 2010. As a result of vesting, the Company is obligated to deliver 6,400 shares of Common Stock to the reporting Person.

**Remarks:** 

## James F. Stern, Attorney-in-

Fact for Terry M. Murphy \*\* Signature of Reporting Person 02/11/2010

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.