FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D	D.C. 20549	
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STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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

Name and Address of Reporting Person* STERN JAMES F						2. Issuer Name and Ticker or Trading Symbol SMITH A O CORP [AOS]									ationship of Reporting all applicable) Director Officer (give title		g Person(s) to Issue 10% Own Other (spe		vner
	`	PORATION	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 08/04/2010										below) below) Exec VP, General Counsel & Sec			
(Street) MILWAU (City)			53224 (Zip)		- 4. li	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Ind Line) X	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	le I - No	n-Deriv	ative	Sec	curit	ies Ac	quired	, Dis	posed o	of, or E	enef	icially	Owned	t			
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) of Disposed Of (D) (Instr. 3, 4			1 and 5) Securit Benefic Owned		es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) (D)	or Pr	ice	Reporte Transac (Instr. 3	ction(s)			(Instr. 4)
Common Stock 08/04					/2010				М		5,000) A	\$	54.745	5,	375		D	
Common Stock 08/04/					/2010	2010		S		2,210(1) D	\$	54.91	3,165		D			
		7	able II -								osed of converti				Owned				
1. Title of Derivative Security (Instr. 3) 2. Conversion or Exercise Price of Derivative Security		3. Transaction Date (Month/Day/Year)	3A. Deen Executio if any (Month/D	n Date,		ransaction ode (Instr.		n of		6. Date Exercis Expiration Date (Month/Day/Yea		7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		S	. Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transactio (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisa		Expiration Date	Title	Ame or Nun of Sha						
Restricted Stock Units	(2)	08/04/2010			M			5,000	(2)		(2)	Commo	5,0	000	\$0	13,400		D	

Explanation of Responses:

- 1. 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 (2).
- 2. 5,000 restricted stock units were granted on 06/01/2007, under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3. The 5,000 restricted stock units vested on 06/01/2010. As a result of vesting, the Company is obligated to deliver 5,000 shares of Common Stock to the Reporting Person. Pursuant to the Company's policy that shares are not issued during a no-trade window, these shares were issued on 08/04/2010.

Remarks:

James F. Stern

** Signature of Reporting Person

Date

08/05/2010

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.