FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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* BUEHLER WILLIAM F						2. Issuer Name and Ticker or Trading Symbol SMITH A O CORP [AOS]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
DUEIL	LEK WIL	LIAWI F				[1200]									X	Direc	ctor	10% (Owner	
(Last) (First) (Middle) 3121 MARSH GATE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 04/12/2010										Office below	er (give title v)	Other below	(specify)	
(Street) SEABROOK ISLAND SC 29455				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(St	ate) (.	Zip)																	
		Tabl	e I - No	n-Deriv	ative	Sec	curitie	s Acc	quired,	Dis	posed o	f, oı	r Ben	efici	ally	Owne	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution [Date,	3. Transa Code (8)		Disposed	ties Acquired (A) I Of (D) (Instr. 3, 4				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)			(11301. 4)				
Common Stock 04/12/2						/2010					1,651(1	(1) A \$5		\$54	.52	.52 15,131		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)	rivative Conversion Date Execution Date, curity or Exercise (Month/Day/Year) if any			n Date,	4. Transaction Code (Instr. 8)		of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			8. Price of Derivative Security (Instr. 5)		9. Number of derivative Securities Beneficially Owned Following Reported Transactions (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nur of	ount nber ıres						

Explanation of Responses:

1. Payment of portion of retainer in stock under the A. O. Smith Corporation Directors' Compensation Plan based on the market price of the Common Stock on April 12, 2010.

Remarks:

Kenneth J. Maciolek, Attorneyin-Fact for William F. Buehler 04/13/2010

** 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.