

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL	
OMB Number:	3235-0287
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1. Name and Address of Reporting Person* <u>RETLER STEVE W</u> (Last) (First) (Middle) <u>A. O. SMITH CORPORATION</u> <u>11270 WEST PARK PLACE</u> (Street) <u>MILWAUKEE WI 53224</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>SMITH A O CORP [AOS]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title below) Other (specify below) <u>Senior Vice President - CD</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>02/10/2011</u>	
4. If Amendment, Date of Original Filed (Month/Day/Year)		

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)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock	02/10/2011		s		1,000	D	\$41.97	30,936	D	
Common Stock	02/10/2011		s		700	D	\$41.98	30,236	D	
Common Stock	02/10/2011		s		600	D	\$41.99	29,636	D	
Common Stock	02/10/2011		s		300	D	\$42	29,336	D	
Common Stock	02/10/2011		s		2,692	D	\$42.01	26,644	D	
Common Stock	02/10/2011		s		500	D	\$42.02	26,144	D	
Common Stock	02/10/2011		s		1,350	D	\$42.03	24,794	D	
Common Stock	02/10/2011		s		1,150	D	\$42.04	23,644	D	
Common Stock	02/10/2011		s		1,360	D	\$42.05	22,284	D	
Common Stock	02/10/2011		s		200	D	\$42.055	22,084	D	
Common Stock	02/10/2011		s		1,600	D	\$42.06	20,484	D	
Common Stock	02/10/2011		s		600	D	\$42.07	19,884	D	
Common Stock	02/10/2011		s		600	D	\$42.08	19,284	D	
Common Stock	02/10/2011		s		500	D	\$42.09	18,784	D	
Common Stock	02/10/2011		s		300	D	\$42.1	18,484	D	
Common Stock	02/10/2011		s		1,100	D	\$42.11	17,384	D	
Common Stock	02/10/2011		s		204	D	\$42.12	17,180	D	
Common Stock	02/10/2011		s		700	D	\$42.13	16,480	D	
Common Stock	02/10/2011		s		800	D	\$42.14	15,680	D	
Common Stock	02/10/2011		s		200	D	\$42.16	15,480	D	
Common Stock	02/10/2011		s		100	D	\$42.17	15,380	D	
Common Stock	02/10/2011		s		200	D	\$42.18	15,180	D	
Common Stock	02/10/2011		s		100	D	\$42.19	15,080	D	
Common Stock	02/10/2011		s		100	D	\$42.2	14,980	D	
Common Stock	02/10/2011		s		200	D	\$42.21	14,780	D	
Common Stock	02/10/2011		s		200	D	\$42.22	14,580	D	

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

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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. Transaction Code (Instr. 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)		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				
Explanation of Responses: Remarks:													
								Amount					
								Date Exercisable			02/11/2011		
								Expiration Date					
								Title		Signature of Reporting Person			
								Date		Date			

[James F. Stern, Attorney-in-Fact for Steve W. Rettler](#)
 Title Shares

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.