

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>JONES PAUL W</u> (Last) (First) (Middle) A. O. SMITH CORPORATION 11270 WEST PARK PLACE (Street) MILWAUKEE WI 53224 (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) <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) Chair, Pres. and CEO
	3. Date of Earliest Transaction (Month/Day/Year) 02/11/2011	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> 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)	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	02/11/2011		S		700	D	\$42.29	127,096	D	
Common Stock	02/11/2011		S		194	D	\$42.295	126,902	D	
Common Stock	02/11/2011		S		1,906	D	\$42.3	124,996	D	
Common Stock	02/11/2011		S		100	D	\$42.305	124,896	D	
Common Stock	02/11/2011		S		5,094	D	\$42.31	119,802	D	
Common Stock	02/11/2011		S		118	D	\$42.31	119,684	D	
Common Stock	02/11/2011		S		9	D	\$42.315	119,675	D	
Common Stock	02/11/2011		S		3,000	D	\$42.32	116,675	D	
Common Stock	02/11/2011		S		600	D	\$42.33	116,075	D	
Common Stock	02/11/2011		S		1,200	D	\$42.34	114,875	D	
Common Stock	02/11/2011		S		100	D	\$42.345	114,775	D	
Common Stock	02/11/2011		S		300	D	\$42.35	114,475	D	
Common Stock	02/11/2011		S		200	D	\$42.36	114,275	D	
Common Stock	02/11/2011		S		100	D	\$42.365	114,175	D	
Common Stock	02/11/2011		S		300	D	\$42.37	113,875	D	
Common Stock	02/11/2011		S		1,100	D	\$42.38	112,775	D	
Common Stock	02/11/2011		S		700	D	\$42.4	112,075	D	
Common Stock	02/11/2011		S		599	D	\$42.42	111,476	D	
Common Stock	02/11/2011		S		1	D	\$42.425	111,475	D	
Common Stock	02/11/2011		M		31,800 ⁽¹⁾	A	\$42.2197	143,275	D	
Common Stock	02/11/2011		S		14,000 ⁽²⁾	D	\$42.2197	129,275	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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	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)					

**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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		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				
Restricted Stock Units	\$23.76	02/11/2011		M			31,800	(1)	(1)	Common Stock	31,800	\$0	101,300	D	

Explanation of Responses:

- 31,800 Restricted Stock Units were granted on 02/11/2008, under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3. 31,800 Restricted Stock Units vested on 02/11/2011. As of result of vesting, the Company is obligated to deliver 31,800 shares of Common Stock to the reporting person.
- 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 Paul W. Jones 02/15/2011
 ** 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.