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.C. 20549

## 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

1. Name and Address of Reporting Person*  BEDNAR RANDALL S						2. Issuer Name and Ticker or Trading Symbol SMITH A O CORP [ AOS ]								(Checl	k all app Dired	olicable)	Person(s) to Issuer  10% Owner Other (specify		
(Last) (First) (Middle) A. O. SMITH CORPORATION 11270 WEST PARK PLACE					3. Date of Earliest Transaction (Month/Day/Year) 02/07/2011								X	belov	w) ``	below President - CI	)``		
(Street) MILWAUKEE WI 53224  (City) (State) (Zip)					_ 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									. Individual or Joint/Group Filing (Check Applicable ine)  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. Transacti Date (Month/Day						Exec if an	cution [	eemed ution Date, / th/Day/Year)		ction Instr.	4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a		nd 5) Secu Bene Owne		icially d Following	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			Reported Transaction(s) (Instr. 3 and 4)			(111511.4)	
Common Stock 02/07/20					2011	011			A		5,022(1)	A	\$43	\$43.115		17,044	D		
Common Stock 02/09/20					2011	:011			S		2,088(2)	D	\$41	.7435	1	14,956	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)	if any	emed on Date, /Day/Year)	4. Transactio Code (Inst				6. Date Exerc Expiration Da (Month/Day/Y		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Deri Sec (Ins	rice of ivative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Numbe of Shares						

## **Explanation of Responses:**

- 1. Vesting to reporting person of restricted stock units settled in shares of common stock under the A. O. Smith Combined Incentive Compensation Plan upon attainment of performance criteria.
- 2. 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 Randall S. Bednar

02/09/2011

\*\* 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.