FORM 4

# **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

if no longer subject to
rm 4 or Form 5
y continue. See

# STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).		pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940	ERSHIP	OMB Number: 3235-0287 Estimated average burden hours per response: 0.5
Name and Address of Reporting Person*     BEDNAR RANDALL S		2. Issuer Name <b>and</b> Ticker or Trading Symbol SMITH A O CORP [ AOS ]	(Check all app Direc X Offic	ctor 10% Owner er (give title Other (specify
(Last) (First) (Middle) A. O. SMITH CORPORATION 11270 WEST PARK PLACE		3. Date of Earliest Transaction (Month/Day/Year) 10/20/2009	belo	w) below) enior Vice President - CIO
	3224 Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	Line) X Forn	or Joint/Group Filing (Check Applicable In filed by One Reporting Person In filed by More than One Reporting Ioon
		tive Securities Acquired, Disposed of, or Benefi	cially Owne	ed

MILWAUKEE WI	53224							Form filed by Mo	re than One Rep	orting
(City) (State)	(Zip)									
	Table I - Non-Derivat	ive Securities Acc	uired	, Dis	posed of,	or Ben	eficially	Owned		
1. Title of Security (Instr. 3)	2. Transacti Date (Month/Day/	Execution Date,	3. Transaction Code (Instr. 8)		4. Securities Disposed Of	Acquired (D) (Instr.	(A) or 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirec Beneficia Ownershi
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	10/20/20	009	М		19,300	A	\$15.135	26,216	D	
Common Stock	10/20/20	009	M		11,200	A	\$26.88	37,416	D	
Common Stock	10/20/20	009	М		10,700	A	\$28.7	48,116	D	
Common Stock	10/20/20	009	S		11,881	D	\$43.5	36,235	D	
Common Stock	10/20/20	009	S		900	D	\$43.51	35.335	D	
Common Stock	10/20/20	009	S		418	D	\$43.52	34,917	D	
Common Stock	10/20/20	009	S		700	D	\$43.53	34,217	D	
Common Stock	10/20/20	009	S		400	D	\$43.54	33,817	D	
Common Stock	10/20/20	009	S		2,305	D	\$43.55	31,512	D	
Common Stock	10/20/20	009	S		2,100	D	\$43.56	29,412	D	
Common Stock	10/20/20	009	S		1,995	D	\$43.57	27,417	D	
Common Stock	10/20/20	009	S		400	D	\$43.58	27,017	D	
Common Stock	10/20/20	009	S		500	D	\$43.59	26,517	D	
Common Stock	10/20/20	009	S		900	D	\$43.6	25,617	D	
Common Stock	10/20/20	009	S		200	D	\$43.61	25,417	D	
Common Stock	10/20/20	009	S		500	D	\$43.62	24,917	D	
Common Stock	10/20/20	009	S		1,894	D	\$43.63	23,023	D	
Common Stock	10/20/20	009	S		600	D	\$43.64	22,423	D	
Common Stock	10/20/20	009	S		500	D	\$43.65	21,923	D	
Common Stock	10/20/20	009	S		400	D	\$43.66	21,523	D	
Common Stock	10/20/20	009	S		300	D	\$43.67	21,223	D	
Common Stock	10/20/20	009	S		300	D	\$43.68	20,923	D	
Common Stock	10/20/20	009	S		272	D	\$43.69	20,651	D	
Common Stock	10/20/20	009	S		400	D	\$43.7	20,251	D	
Common Stock	10/20/20	009	S		300	D	\$43.71	19,951	D	
Common Stock	10/20/20	009	S		1,000	D	\$43.72	18,951	D	
Common Stock	10/20/20	009	S		2,300	D	\$43.73	16,651	D	
Common Stock	10/20/20	009	S		600	D	\$43.74	16,051	D	
Common Stock	10/20/20	009	S		500	D	\$43.75	15,551	D	

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)	Code (	ransaction Disposed Of (D) (Instr. 3, 4 and 5) ode (Instr.		5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership				
			Code	v	Amount	Amount (A) or (D) Price		Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		
Common Stock	10/20/2009		S		1,100	D	\$43.76	14,451	D			

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

	(e.g., pane, cane, manane, opinione, community														
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. Transa Code ( 8)		of Deri Sec Acq (A) Disp	ivative urities uired or oosed D) (Instr. and 5)	Expiration Date (Month/Day/Year)		Date of Securities		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				
Employee Stock Options (Right to Buy) <sup>(1)</sup>	\$15.135	10/20/2009		M			19,300	10/08/2002	10/09/2011	Common Stock	19,300	\$0	34,300	D	
Employee Stock Options (Right to Buy) <sup>(2)</sup>	\$26.88	10/20/2009		M			11,200	10/10/2003	10/11/2012	Common Stock	11,200	\$0	23,100	D	
Employee Stock Options (Right to Buy) <sup>(3)</sup>	\$28.7	10/20/2009		М			10,700	10/06/2004	10/07/2013	Common Stock	10,700	\$0	12,400	D	

#### **Explanation of Responses:**

- 1. Granted on 10/09/2001 under the A. O. Smith Corporation Long-Term Executive Incentive Compensation Plan, a transaction exempt under Rule 16b-3.
- 2. Granted on 10/11/2002 under the A. O. Smith Combined Executive Incentive Compensation Plan, a transaction exempt under Rule 16b-3.
- 3. Granted on 10/07/2003 under the A. O. Smith Combined Executive Incentive Compensation Plan, a transaction exempt under Rule 16b-3.

### Remarks:

James F. Stern, Attorney-in-Fact for Randall S. Bednar

10/21/2009

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.