SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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									
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Heideman Ro (Last) A. O. SMITH C CENTER	A. O. SMITH CORPORATE TECHNOLOGY		2. Issuer Name and Ticker or Trading Symbol <u>SMITH A O CORP</u> [AOS] 3. Date of Earliest Transaction (Month/Day/Year) 02/11/2011		ationship of Reporting Perso all applicable) Director Officer (give title below) Senior VP Corporate 1	10% Owner Other (specify below)
			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	Individual or Joint/Group Filing (Check Applica ne) X Form filed by One Reporting Person	
MILWAUKEE (City)	WI (State)	53224 (Zip)			Form filed by More than (Person	Dne Reporting

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	Transaction Disposed Of (D) (Instr. 3 Code (Instr.		urities Acquired (A) or sed Of (D) (Instr. 3, 4 and 5)		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)		(1150. 4)
Common Stock	02/11/2011		М		450 ⁽¹⁾	A	\$42.2197	450	D	
Common Stock	02/11/2011		S		154 ⁽²⁾	D	\$42.2197	296	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. Transa Code (8)		of		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	(1)	02/11/2011		М			450	(1)	(1)	Common Stock	450	\$0	3,000	D	

Explanation of Responses:

1. 450 Restricted Stock Units were granted on 02/11/2008, under the A. O. Smith Combined Incentive Compensation Plan, a transaction excempt under Rule 16b-3. 450 Restricted Stock Units vested on 02/11/2011. As of result of vesting, the Company is obligated to deliver 450 shares of Common Stock to the reporting person.

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 Robert J. Heideman

** Signature of Reporting Person

02/14/2011

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.