FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

3235-0287				
0.5				

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

1. Name and Address of Reporting Person* Heideman Robert J (Last) (First) (Middle) A. O. SMITH CORPORATE TECHNOLOGY CENTER 12100 WEST PARK PLACE (Street) MILWAUKEE WI 53224 (City) (State) (Zip)						2. Issuer Name and Ticker or Trading Symbol SMITH A O CORP [AOS] 3. Date of Earliest Transaction (Month/Day/Year) 02/07/2011 4. If Amendment, Date of Original Filed (Month/Day/Year)								S. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da					Execution Date,			Transaction Disposed Code (Instr. 5)			urities Acquired (A) o sed Of (D) (Instr. 3, 4 a				es ally Following	Form (D) o	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership
					Code V Amount (A) or (D)				or P	rice	Transact (Instr. 3	tion(s)			(Instr. 4)			
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)	itle of 2. 3. Transaction Date Execution Date, if any or Exercise (Month/Day/Year)			4. Transa Code (8)		of E		6. Date Exer Expiration I (Month/Day)		d 7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			B. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable		opiration	Title	Amo or Num of Sha	ber					
Employee Stock Options (Right to Buy)	\$43.115	02/07/2011		A		4,000		(1)	02	2/07/2021	Common Stock	4,0	00	\$0	10,150)	D	
Restricted Stock Units	\$43.115	02/07/2011		A		1,500		(2)		(2)	Common	1,5	00	\$0	3,450		D	

Explanation of Responses:

- 1. The employee stock options wre granted on 02/07/2011 under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3. The options become exerciable in three annual installments of 1/3 of the award starting on 02/07/2012.
- 2. The restricted stock units wre granted on 02/07/2011 under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3. The restricted stock units become payable in Common Stock on the vesting date of 02/07/2014.

Remarks:

James F. Stern, Attorney-in-Fact for Robert J. Heideman

02/08/2011

** 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.