FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPRO	VAL							
	OMB Number:	3235-0287							
l	Estimated average burden								
l	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).

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* <u>Anderson Stephen</u>						2. Issuer Name and Ticker or Trading Symbol SMITH A O CORP [AOS]										5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title X below)					
	st) (First) (Middle) O. SMITH CORPORATION) TENNESSEE WALTZ PARKWAY					3. Date of Earliest Transaction (Month/Day/Year) 02/09/2012										below)			below) n 16 Office		
(Street) ASHLAND CITY TN 37015 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)									Line	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(3)	•		n-Deriv	/ative		curiti	ios A <i>c</i>	- auir	ad D	<u>—</u>	nosed o	of or B	onof	iciall	v Owner	1				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				action	tion 2A. Deemed Execution Date			3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4) or	5. Amou Securiti Benefic Owned	unt of 6. Fo ially (D) Following (I)		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership			
									Со	de V		Amount	(A) (D)	or P	rice	Reporte Transac (Instr. 3	tion(s)		1	(Instr. 4)	
Common	Stock			02/09	9/2012	2			N	Л		1,650	(1) A		\$45.5	59 2,307 D					
Common	Stock			02/10)/2012	2			5	5		677 ⁽²) <u></u>		\$45.5	9 1,	630		D		
		Т	able II -									sed of onverti				Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	4. Transa Code (8)		n of		Expira	e Exerc ation Da h/Day/\	ate	ble and	7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		urity	8. 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)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Co	Code	le V	(A)		Date Exerc	isable		xpiration ate	Title	or	ount mber ires						
Restricted Stock	(1)	02/09/2012			M			1,650	(:	1)		(1)	Common	1,0	550	\$0	1,850		D		

Explanation of Responses:

- 1. 1,650 Restricted Stock Units were granted on 02/09/2009, under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3. 1,650 Restricted Stock Units vested on 02/09/2012. As a result of vesting, the Company is obligated to deliver 1,650 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:

<u>James F. Stern, Attorney-in-</u> <u>Fact for Stephen Anderson</u>

02/10/2012

** 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.