

**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

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	
OMB Number:	3235-0104
Estimated average burden hours per response:	0.5

<b>1. Name and Address of Reporting Person*</b> <u>Anderson Stephen</u> <hr/> (Last) (First) (Middle) <u>A. O. SMITH WATER PRODUCTS COMPANY</u> <u>500 TENNESSEE WALTZ PARKWAY</u> <hr/> (Street) <u>ASHLAND CITY TN 37015</u> <hr/> (City) (State) (Zip)	<b>2. Date of Event Requiring Statement (Month/Day/Year)</b> <u>10/10/2011</u>	<b>3. Issuer Name and Ticker or Trading Symbol</b> <u>SMITH A O CORP [ AOS ]</u>	<b>5. If Amendment, Date of Original Filed (Month/Day/Year)</b>
		<b>4. Relationship of Reporting Person(s) to Issuer (Check all applicable)</b> Director _____ 10% Owner _____ Officer (give title below) <input checked="" type="checkbox"/> Other (specify below) _____ <p align="center"><u>Designated Section 16 Officer</u></p>	<b>6. Individual or Joint/Group Filing (Check Applicable Line)</b> <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
---------------------------------	---	--	---

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date				
<u>Employee Stock Options (Right to Buy)</u>	(1)	(1)	<u>Common Stock</u> 9,901	0	D	
<u>Restricted Stock Units</u>	(2)	(2)	<u>Common Stock</u> 3,500	0	D	

**Explanation of Responses:**

1. Employee stock options were granted under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3; 3,450 employee stock options were granted on 02/11/2008 and became exercisable in three annual installments of 1/3 of the award starting on 02/11/2009; 2,299 stock options were previously exercised and 1,151 are outstanding; 5,850 employee stock options were granted on 02/09/2009 and became exercisable in three annual installments of 1/3 of the award starting on 02/09/2010; 1,950 stock options were previously exercised and 3,900 are outstanding; 2,850 employee stock options were granted on 02/08/2010 and became exercisable in three annual installments of 1/3 of the award starting on 02/08/2011; 2,000 employee stock options were granted on 02/07/2011 and become exercisable in three annual installments of 1/3 of the award starting on 02/07/2012. All employee stock options expire ten years after the date of the award.

2. Restricted stock units were granted under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3; 1,650 restricted stock units were granted on 02/09/2009; 1,050 restricted stock units were granted on 02/08/2010; and 800 restricted stock units were granted on 02/07/2011. The restricted stock units become payable in Common Stock on the vesting date, which is three years after the grant date.

**Remarks:**

James F. Stern, Attorney-in-Fact for Stephen Anderson      10/17/2011

\*\* 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 5 (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.

POWER OF ATTORNEY

Know all by these presents, that, for good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, the undersigned hereby constitute and authorize the undersigned (1) execute for and on behalf of the undersigned (in accordance with Section 16(a) of the Securities Exchange Act of 1934, as amended, and the rules thereunder (the (2) do and perform any and all acts for and on behalf of the undersigned that may be necessary or desirable to complete and execute any such Documents and timely file (3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of the undersigned. The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary or proper to carry out the foregoing purposes and to execute the same. This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Documents with respect to the undersigned's holdings. IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 13th day of October, 2011.

/s/Stephen Anderson