

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL

OMB Number: 3235-0104
Estimated average burden
hours per response: 0.5Filed 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>Ding Wei</u> (Last) (First) (Middle) <u>A. O. SMITH (CHINA) WATER HEATER CO. LTD</u> <u>336 YAO XIN AVENUE</u> (Street) <u>NANJING F3 210038</u> (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) <u>01/01/2013</u>	3. Issuer Name and Ticker or Trading Symbol <u>SMITH A O CORP [AOS]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>President and GM, AOSCWHC</u>	5. If Amendment, Date of Original Filed (Month/Day/Year) <u>01/10/2013</u> 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person 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)
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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	Title	Amount or Number of Shares			
<u>Restricted Stock Units</u>	(1)	(1)	<u>Common Stock</u>	<u>4,400</u>	<u>0</u>	<u>D</u>	

Explanation of Responses:

1. Restricted stock units were granted under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3: 600 restricted stock units were granted on 02/08/2010; 500 restricted stock units were granted on 02/07/2011; 800 restricted stock units were granted on 02/13/2012; and 2,500 restricted stock units were granted on 12/10/2012. 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 Wei Ding 01/17/2013

** 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.