

Rajendra Ajita G  
 Form 4  
 February 11, 2010

**FORM 4**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549**

OMB APPROVAL

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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 Rajendra Ajita G

(Last) (First) (Middle)

A. O. SMITH WATER PRODUCTS  
 COMPANY, 500 TENNESSEE  
 WALTZ PARKWAY

(Street)

ASHLAND CITY, TN 37015

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
 SMITH A O CORP [AOS]

3. Date of Earliest Transaction  
 (Month/Day/Year)  
 02/09/2010

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_ Director \_\_\_ 10% Owner  
 Officer (give title below) \_\_\_ Other (specify below)  
 Executive Vice President

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 \_\_\_ Form filed by More than One Reporting Person

**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)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				(A) or (D)	Price		
			Code	V	Amount		
Common Stock	02/09/2010		M		4,700	\$ 42.82	25,658 D
Common Stock	02/09/2010		F		1,479	\$ 42.82	24,179 D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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 (9-02)

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**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. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price or Value of Underlying Securities (Instr. 3 and 4)
Phantom Stock	(1)	02/09/2010		M	4,700	(1) (1)	Common Stock	4,700

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Rajendra Ajita G A. O. SMITH WATER PRODUCTS COMPANY 500 TENNESSEE WALTZ PARKWAY ASHLAND CITY, TN 37015			Executive Vice President	

## Signatures

James F. Stern, Attorney-in-Fact for Ajita G.  
Rajendra

02/11/2010

\_\_Signature of Reporting Person Date

## Explanation of Responses:

- \* 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).
- 4,700 shares of phantom stock were granted on February 9, 2007, under the A. O. Smith Combined Incentive Compensation Plan, a (1) transaction exempt under Rule 16b-3. The 4,700 shares of phantom stock vested on February 9, 2010. As a result of vesting, the Company is obligated to deliver 4,700 shares of Common Stock to the reporting Person.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.