| SEC | Form | 4 |
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| FORM 4 |
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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| Check this box if no longer subject to |
|--|
| Section 16. Form 4 or Form 5 |
| obligations may continue. See |
| Instruction 1(b). |

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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: | 3235-0287 | | | | | | | |
| Estimated average burg | len | | | | | | | |
| hours per response: | 0.5 | | | | | | | |

| I I Name and Address of Reporting Feison | | | 2. Issuer Name and Ticker or Trading Symbol <u>SMITH A O CORP</u> [AOS] | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) | | | | |
|--|----------------|--------------|--|-------------------|---|--------------------------|--|--|--|
| | | | | | Director | 10% Owner | | | |
| (1 +) | (5) | (A 4:-1-11-) | | X | Officer (give title below) | Other (specify below) | | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) 02/08/2010 | | President, A. O. Smit | h Water P | | | |
| | ATER PRODUCT | | | | | | | | |
| 500 TENNESSE | EE WALTZ PARKY | WAY | | | | | | | |
| (Street) | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | 6. Indiv Line) | idual or Joint/Group Filing (| Check Applicable | | | |
| ASHLAND | TN | 37015 | | X | Form filed by One Report | ting Person | | | |
| CITY | 11 | 57015 | | | Form filed by More than (Person | One Reporting | | | |
| (City) | (State) | (Zip) | | | | | | | |

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. Transa Code (8) | | 4. Securities Disposed Of 5) | | | 5. Amount of Securities Beneficially Owned Following Reported | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--|---|------------------------------|---|------------------------------------|---------------|-------|---|---|---|
| | | | Code | v | Amount | (A) or (D) | Price | Transaction(s) (Instr. 3 and 4) | | (1150.4) |

 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) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transa Code (8) | | of | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---|---|--|---|------------------------------|---|--------|-----|--|--------------------|---|--|---|--|--|--|
| | | | | Code | v | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | | |
| Employee Stock Options (Right to Buy) | \$41.895 | 02/08/2010 | | A | | 10,600 | | (1) | 02/08/2020 | Common Stock | 10,600 | \$0 | 91,200 | D | |
| Restricted Stock Units | \$41.895 | 02/08/2010 | | Α | | 3,900 | | (2) | (2) | Common Stock | 3,900 | \$0 | 19,400 | D | |

Explanation of Responses:

1. The employee stock options were granted on 02/08/2010 under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3. The options become exercisable in three annual installments of 1/3 of the award starting on 02/08/2011.

2. The restricted stock units were granted on 02/08/2010 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 02/08/2013.

Remarks:

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

Signature of Reporting Person

02/10/2010

** 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.