FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

Washington, D.C. 20549

OMB APPROVAL	
OMB Number:	3235-028

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

37 Estimated average burden hours per response: 0.5

or Section 30(h) of the Investment Company Act of 1940 2. Issuer Name and Ticker or Trading Symbol 5. Relationship of Reporting Person(s) to Issuer 1. Name and Address of Reporting Person (Check all applicable) SMITH A O CORP [ AOS ] RETTLER STEVE W Director 10% Owner Officer (give title Other (specify helow) below) 3. Date of Earliest Transaction (Month/Day/Year) (Last) (Middle) (First) Vice President 10/12/2004 A. O. SMITH CORPORATION 11270 WEST PARK PLACE 4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person **MILWAUKEE** 53224 Form filed by More than One Reporting (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) 1. Title of Security (Instr. 3) 2. Transaction 2A. Deemed 5. Amount of 6. Ownership 7. Nature of Transaction **Execution Date** Securities Form: Direct Indirect (Month/Day/Year) (D) or Indirect Beneficial if any Code (Instr. Beneficially Owned Following (Month/Day/Year) 8) (I) (Instr. 4) Ownership Reported (Instr. 4) (A) or (D) Transaction(s) (Instr. 3 and 4) ٧ Amount Price Common Stock 10/12/2004 A 3,500 Α (1) 7.250 D Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 1. Title of Derivative 3. Transaction 3A. Deemed Execution Date, 5. Number 6. Date Exercisable and 7. Title and 8. Price of 9. Number of 11. Nature Conversion Derivative Transaction **Expiration Date** Amount of derivative Ownership of Indirect if any (Month/Day/Year) Derivative Security (Instr. 3) or Exercise Price of (Month/Day/Year) Code (Instr. 8) (Month/Day/Year) Securitie Securities Beneficially Form: Beneficial Underlying Direct (D) Ownership Securities (Instr. 5) Derivative Acquired Derivative Security or Indirect (Instr. 4) (Instr. 3 and 4) Security (A) or Following (I) (Instr. 4) Disposed of (D) (Instr. 3, 4 Reported Transaction(s) (Instr. 4) and 5) Amount Number Date Expiration Code (A) (D) Exercisable Title Shares

## **Explanation of Responses:**

\$24.64

\$24.64

- 1. Award of restricted stock.
- 2. The employee stock options and stock appreciation rights were granted in tandem on 10/12/2004 under the A. O. Smith Combined Executive Incentive Compensation Plan, a transaction exempt under Rule 16b-3. Accordingly, the exercise of one results in the expiration of the other.

10/11/2005

10/11/2005

10/12/2014

10/12/2014

## Remarks:

Employee Stock Options

(Right to Buy)<sup>(2)</sup> Stock

Appreciation

Rights<sup>(2)</sup>

W. David Romoser, Attorneyin-Fact for Steve W. Rettler

4,500

4.500

Stock

Common

\$0

\$0

10/13/2004

88,450

88,450

D

D

\*\* 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).

10/12/2004

10/12/2004

\*\* 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.

4.500

4.500

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