SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of

the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): January 26, 2010

A. O. Smith Corporation

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction

of incorporation)

1-475 (Commission **39-0619790** (IRS Employer

Identification No.)

File Number) P.O. Box 245008, Milwaukee, Wisconsin 53224-9508

(Address of principal executive offices, including zip code)

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(414) 359-4000

(Registrant s telephone number)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- " Written communication pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- " Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 204.14a-12)
- " Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- " Pre-commencement communications pursuant to Rule 13-e4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 2.02. Results of Operations and Financial Condition

On January 26, 2010, A. O. Smith Corporation (the Company) issued a news release announcing the Company s 2009 earnings. A copy of the Company s news release is attached as Exhibit 99.1 to this Current Report on Form 8-K (this Current Report) and is incorporated by reference herein.

The news release contains non-GAAP earnings and earnings per share. Management uses this non-GAAP information for all internal purposes of reporting results of operations, including return on investment measures utilized in determining certain incentive-based compensation and employee profit sharing amounts.

Item 9.01. Financial Statements and Exhibits

The following exhibit is being filed herewith:

(99.1) News Release of A. O. Smith Corporation, dated January 26, 2010.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

A. O. SMITH CORPORATION

Date: January 26, 2010

By:

/s/ JAMES F. STERN James F. Stern

Executive Vice President,

General Counsel and Secretary

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A. O. SMITH CORPORATION

Exhibit Index to Current Report on Form 8-K Dated January 26, 2010

Exhibit Number Description

99.1 News Release of A. O. Smith Corporation, dated January 26, 2010

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