UNITED STATES

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): 5/2/2007

Owens Corning

(Exact Name of Registrant as Specified in its Charter)

Commission File Number: 1-33100

DE (State or Other Jurisdiction of 43-2109021 (I.R.S. Employer

Incorporation or Organization) One Owens Corning Parkway, Toledo, OH 43659

Identification No.)

(Address of Principal Executive Offices, Including Zip Code)

419-248-8000

(Registrant s Telephone Number, Including Area Code)

(Former name or former address, if changed since last report)

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:

- " Written communications 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 240.14a-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 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Items to be Included in this Report

Item 2.02. Results of Operations and Financial Condition.

On May 2, 2007, Owens Corning issued an earnings release announcing its financial results for the quarter ended March 31, 2007. A copy of the earnings release is attached as Exhibit 99.1. Exhibit 99.1 contains certain financial measures that are considered non-GAAP financial measures as defined in Securities and Exchange Commission rules. Exhibit 99.1 also contains the reconciliation of these non-GAAP financial measures to their most directly comparable financial measures calculated and presented in accordance with generally accepted accounting principles.

The information in Item 2.02 of this Current Report is being furnished and shall not be deemed filed for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that Section. The information in Item 2.02 of this Current Report shall not be incorporated by reference into any registration statement or other document pursuant to the Securities Act of 1933, as amended.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No.Description99.1Press Release, dated May 2, 2007.

SIGNATURE

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.

Owens Corning

Date: May 2, 2007

By: /s/ Rodney A. Nowland Rodney A. Nowland Assistant Secretary

EXHIBIT INDEX

Exhibit No.Description99.1Press Release, dated May 2, 2007.