CF Industries Holdings, Inc. Form 8-K October 29, 2007

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): October 29, 2007

CF Industries Holdings, Inc.

(Exact name of Registrant as specified in its charter)

Delaware 001-32597 20-2697511

(I.R.S. Employer Identification Number)
(State or other jurisdiction (Commission File No.)

of incorporation)

4 Parkway North, Suite 400 60015

Deerfield, IL

(Address of principal executive office) (Zip Code)

Registrant s telephone number, including area code (847) 405-2400

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

Item 2.02. Results of Operations and Financial Condition.

On October 29, 2007, CF Industries Holdings, Inc. issued a press release announcing its results for the quarter and nine months ended September 30, 2007. The press release is attached hereto as Exhibit 99.1.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No. Description of Exhibit

99.1 Press release dated October 29, 2007

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, thereunto duly authorized.

Date: October 29, 2007 CF INDUSTRIES HOLDINGS, INC.

By: /s/ DOUGLAS C. BARNARD

Name: Douglas C. Barnard

Title: Vice President, General Counsel, and Secretary

EXHIBIT INDEX

Exhibit No. 99.1

<u>- Description</u> Press release dated October 29, 2007