

CF Industries Holdings, Inc.  
Form 8-K  
February 10, 2009

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549**

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**Form 8-K**

**CURRENT REPORT  
PURSUANT TO SECTION 13 OR 15(d) OF  
THE SECURITIES EXCHANGE ACT OF 1934**

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Date of Report (Date of earliest event reported): **February 10, 2009**

**CF Industries Holdings, Inc.**

(Exact name of Registrant as specified in its charter)

**Delaware**  
(State or other jurisdiction  
of incorporation)

**001-32597**  
(Commission File No.)

**20-2697511**  
(I.R.S. Employer  
Identification Number)

**4 Parkway North, Suite 400**  
**Deerfield, IL**  
(Address of principal  
executive office)

**60015**  
(Zip Code)

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

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

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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))
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**Item 2.02. Results of Operations and Financial Condition.**

On February 10, 2009, CF Industries Holdings, Inc. issued a press release announcing its results for the quarter and fiscal year ended December 31, 2008. 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 February 10, 2009

**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: February 10, 2009

CF INDUSTRIES HOLDINGS, INC.

By: /s/ Douglas C. Barnard

Name:

Douglas C. Barnard

Title:

Vice President, General Counsel,  
and Secretary

**EXHIBIT INDEX**

<b>Exhibit No.</b>	<b>Description</b>
99.1	Press release dated February 10, 2009