

CF Industries Holdings, Inc.  
Form 8-K  
September 17, 2008

**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): **September 17, 2008**

**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 offices)

**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 (see General Instruction A.2. below):

- 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 7.01 Regulation FD Disclosure.**

On September 17, 2008, members of CF Industries Holdings, Inc.'s management will participate in the Credit Suisse Chemical and Ag Science Conference, at which the presentation attached hereto as Exhibit 99.1 will be used.

The information set forth above under Item 7.01 Regulation FD Disclosure, including the exhibits attached hereto, shall not be deemed filed for purposes of Section 18 of the Securities Exchange Act of 1934, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, except as shall be expressly set forth by specific reference in any such filing.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits.

<b>Exhibit No.</b>	<b>Description of Exhibit</b>
99.1	CF Industries Holdings, Inc. Presentation

**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.

**Date:** September 17, 2008

**CF INDUSTRIES HOLDINGS, INC.**

By:                         /s/         Douglas C. Barnard  
Name:                     Douglas C. Barnard  
Title:                     Vice President, General Counsel,  
                               and Secretary

**EXHIBIT INDEX**

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