

CF Industries Holdings, Inc.  
Form 8-K  
February 23, 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 23, 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 Number)

**20-2697511**  
(I.R.S. Employer  
Identification No.)

**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**

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

- 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))
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**Item 8.01 Other Events.**

On February 23, 2009, CF Industries Holdings, Inc. ( CF ) announced via press release the commencement of CF 's exchange offer for all of the outstanding shares of Terra Industries Inc. common stock. The press release is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits.

<b>Exhibit No.</b>	<b>Description of Exhibit</b>
99.1	Press Release.

**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:** February 23, 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.