

Koch Philipp P  
Form 4  
November 19, 2010

**FORM 4**

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

Check this box  
if no longer  
subject to  
Section 16.  
Form 4 or  
Form 5  
obligations  
may continue.  
*See Instruction*  
1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF  
SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,  
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
30(h) of the Investment Company Act of 1940

## OMB APPROVAL

OMB  
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2005  
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response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Koch Philipp P

(Last) (First) (Middle)

C/O CF INDUSTRIES HOLDINGS,  
INC., 4 PARKWAY NORTH,  
SUITE 400

(Street)

DEERFIELD, IL 60015

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading  
Symbol

CF Industries Holdings, Inc. [CF]

3. Date of Earliest Transaction  
(Month/Day/Year)

11/18/2010

4. If Amendment, Date Original  
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
\_\_X\_\_ Officer (give title \_\_\_\_\_ Other (specify  
below) below)  
VP, Supply Chain

6. Individual or Joint/Group Filing(Check  
Applicable Line)  
\_\_X\_\_ Form filed by One Reporting Person  
\_\_\_\_ Form filed by More than One Reporting  
Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of<br>Security<br>(Instr. 3)                | 2. Transaction Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date, if<br>any<br>(Month/Day/Year) | 3.<br>Transaction<br>Code<br>(Instr. 8) | 4. Securities Acquired (A) or<br>Disposed of (D)<br>(Instr. 3, 4 and 5) | 5. Amount of<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s)<br>(Instr. 3 and 4) | 6. Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I)<br>(Instr. 4) | 7. Nature of<br>Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------|
| Common<br>stock, par<br>value<br>\$0.01 per<br>share | 11/18/2010                              |                                                             | M                                       | 20,800 A \$ 16                                                          | 31,083                                                                                                             | D                                                                       |                                                                   |
| Common<br>stock, par<br>value<br>\$0.01 per<br>share | 11/18/2010                              |                                                             | S                                       | 11,132 D \$ 118.49                                                      | 19,951                                                                                                             | D                                                                       |                                                                   |
|                                                      | 11/18/2010                              |                                                             | S                                       | 5,600 D                                                                 | 14,351                                                                                                             | D                                                                       |                                                                   |

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|                                          |            |   |     |   |             |        |   |
|------------------------------------------|------------|---|-----|---|-------------|--------|---|
| Common stock, par value \$0.01 per share |            |   |     |   | \$ 118.4923 |        |   |
| Common stock, par value \$0.01 per share | 11/18/2010 | S | 800 | D | \$ 118.52   | 13,551 | D |
| Common stock, par value \$0.01 per share | 11/18/2010 | S | 700 | D | \$ 118.521  | 12,851 | D |
| Common stock, par value \$0.01 per share | 11/18/2010 | S | 400 | D | \$ 118.54   | 12,451 | D |
| Common stock, par value \$0.01 per share | 11/18/2010 | S | 400 | D | \$ 118.541  | 12,051 | D |
| Common stock, par value \$0.01 per share | 11/18/2010 | S | 35  | D | \$ 118.55   | 12,016 | D |
| Common stock, par value \$0.01 per share | 11/18/2010 | S | 300 | D | \$ 118.56   | 11,716 | D |
| Common stock, par value \$0.01 per share | 11/18/2010 | S | 433 | D | \$ 118.58   | 11,283 | D |
| Common stock, par value \$0.01 per share | 11/18/2010 | S | 600 | D | \$ 118.59   | 10,683 | D |
|                                          | 11/18/2010 | S | 100 | D | \$ 118.6    | 10,583 | D |

Common  
stock, par  
value  
\$0.01 per  
share

Common  
stock, par  
value 11/18/2010 S 300 D \$ 118.63 10,283 D  
\$0.01 per  
share

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

SEC 1474  
(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of<br>Derivative<br>Security<br>(Instr. 3) | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 3. Transaction Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date, if<br>any<br>(Month/Day/Year) | 4.<br>Transaction<br>Code<br>(Instr. 8) | 5. Number of<br>Derivative<br>Securities<br>Acquired (A)<br>or Disposed of<br>(D)<br>(Instr. 3, 4,<br>and 5) | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) | 7. Title and Amount of<br>Underlying Securities<br>(Instr. 3 and 4) |
|-----------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|
|                                                     |                                                                       |                                         |                                                             | Code                                    | V (A) (D)                                                                                                    | Date<br>Exercisable<br>Expiration<br>Date                      | Title<br>Amount<br>or<br>Number<br>of Shares                        |
| Employee<br>Stock<br>Option<br>(right to<br>buy)    | \$ 16                                                                 | 11/18/2010                              |                                                             | M                                       | 20,800                                                                                                       | <u>(1)</u> 08/10/2015                                          | Common<br>stock, par<br>value 20,800<br>\$0.01 per<br>share         |

## Reporting Owners

| Reporting Owner Name / Address                                                                          | Relationships                    |
|---------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                                                                         | Director 10% Owner Officer Other |
| Koch Philipp P<br>C/O CF INDUSTRIES HOLDINGS, INC.<br>4 PARKWAY NORTH, SUITE 400<br>DEERFIELD, IL 60015 | VP, Supply Chain                 |

## Signatures

/s/ Douglas C. Barnard, by power of  
attorney

11/19/2010

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

(1) The options vest in three equal installments on August 10, 2006, 2007, and 2008.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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