

Rolheiser Eric  
 Form 4  
 February 03, 2010

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287  
 Expires: January 31, 2005  
 Estimated average burden hours per response... 0.5

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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 Rolheiser Eric

2. Issuer Name and Ticker or Trading Symbol  
 Core-Mark Holding Company, Inc.  
 [CORE]

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)

(Last) (First) (Middle)  
 395 OYSTER POINT BLVD.,  
 SUITE 415  
 (Street)

3. Date of Earliest Transaction  
 (Month/Day/Year)  
 02/01/2010

\_\_\_\_ Director  
 \_\_\_\_ Officer (give title below)  
 \_\_\_\_ 10% Owner  
 \_\_\_\_ Other (specify below)  
 President - Canada Operations

SOUTH SAN FRANCISCO, CA 94080

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

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

(City) (State) (Zip)

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

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |   |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|---|
|                                 |                                      |  | Code                           | V   | Amount  | (A) or (D)   | Price                             |   |
| Coremark Common Stock           | 02/01/2010                           |  | M                              |   | 1,333   | A  | \$ 0.01 2,648                     | D |
| Coremark Common Stock           | 02/01/2010                           |  | A <sup>(1)</sup>               |   | 3,464   | A  | \$ 0.01 6,112                     | D |
| Coremark Common Stock           | 02/01/2010                           |  | S                              |   | 1,333   | D  | \$ 29.63 4,779                    | D |
|                                 | 02/01/2010                           |  | F <sup>(2)</sup>               |   | 505   | D  | 4,274                             | D |

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Coremark  
Common  
Stock \$  
30.23

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

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

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|----------------------------|
| Restricted Stock Units 07LTIP              | \$ 0.01  | 02/01/2010                           |  | M                              | 1,333   | 02/01/2010 01/21/2019                                    | Coremark Common Stock   | 1,333                      |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |                                     |       |
|--|---------------|-----------|-------------------------------------|-------|
|  | Director      | 10% Owner | Officer                             | Other |
| Rolheiser Eric<br>395 OYSTER POINT BLVD., SUITE 415<br>SOUTH SAN FRANCISCO, CA 94080 |               |           | President -<br>Canada<br>Operations |       |

## Signatures

Amy Morgan,  
POA 02/03/2010

\*\*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).

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- (1) 2007 Long Term Incentive Plan Performance Award. Performance criteria met, 1/3 (one-third) vested on 02/01/2010. Remainder vests quarterly over the next two years beginning 03/31/2010 in equal installments.
- (2) Shares withheld for taxes.

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