Rolheiser Eric Form 4 January 23, 2013

FORM 4

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

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OMB APPROVAL

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

Form 5 obligations may continue. See Instruction

Check this box

if no longer

subject to

Section 16.

Form 4 or

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

1(b).

(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.

5. Relationship of Reporting Person(s) to

Issuer

[CORE]

(Last) (First) (Middle)

(State)

01/18/2013

395 OYSTER POINT BLVD., SUITE 415

(City)

3. Date of Earliest Transaction

(Month/Day/Year)

Director 10% Owner Other (specify

(Check all applicable)

Officer (give title below)

01/18/2013 President - Canada Operations

(Street) 4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

SOUTH SAN FRANCISCO, CA 94080

| | | 24.01 | | orrandro Securios freq |
|------------|---------------------|--------------------|------------|--------------------------|
| 1.Title of | 2. Transaction Date | 2A. Deemed | 3. | 4. Securities Acquired |
| Security | (Month/Day/Year) | Execution Date, if | Transactio | on(A) or Disposed of (D) |
| (Instr. 3) | | any | Code | (Instr. 3, 4 and 5) |
| | | (Month/Day/Year) | (Instr. 8) | |
| | | | | |
| | | | | |
| | | | | (A) |

(Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 5. Amount of 6. 7. Nature of

Securities Indirect Ownership Beneficially Form: Direct Beneficial Owned (D) or Ownership Following Indirect (I) (Instr. 4)

Reported (Instr. 4) Transaction(s)

or (Instr. 3 and 4) Code V Amount (D) Price

D M 1,800 A \$ 0.01 3,950

Coremark

Coremark Common

Common 01/18/2013 F 808 (1) D 3,142 D

Stock

Stock

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

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SEC 1474 (9-02)

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displays a currently valid OMB control

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

| 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. Number | Date Exerc | isable and | 7. Title and A | amount of | i |
|-------------|-------------|---------------------|--------------------|------------|---------------|------------------------------|--------------------|-----------------|--------------|---|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transactio | onof Derivati | re Expiration Da | ite | Underlying S | ecurities |] |
| Security | or Exercise | | any | Code | Securities | (Month/Day/ | Year) | (Instr. 3 and 4 | 4) | |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Acquired | | | | | - |
| | Derivative | | | | (A) or | | | | | |
| | Security | | | | Disposed o | | | | | |
| | | | | | (D) | | | | | |
| | | | | | (Instr. 3, 4, | | | | | |
| | | | | | and 5) | | | | | |
| | | | | | | | | | Amount | |
| | | | | | | Date Exercisable | Expiration Date | Title | Number of | |
| | | | | Code V | (A) (D) | | | | Shares | |
| RSU | | | | | | | | Coremark | | |
| 10LTIP | \$ 0.01 | 01/18/2013 | | M | 1,80 | 0 01/18/2013 | 01/18/2019 | Common | 1,800 | |
| GR 2012 | | | | | | | | Stock | | |

Reporting Owners

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

Signatures

Shawn Levitt,
POA

**Signature of Reporting Person

O1/23/2013

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) Shares withheld for taxes on RSU Vesting.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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