

Murray Christopher M  
 Form 4  
 February 15, 2008

**FORM 4**

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

OMB APPROVAL

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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 \*  
 Murray Christopher M

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)  
 02/13/2008

\_\_\_\_ Director  
 \_\_\_\_ Officer (give title below)  
 \_\_\_\_ 10% Owner  
 \_\_\_\_ Other (specify below)  
 SVP of Marketing

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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
|                                 |                                      |  |                                | (A) or (D)  | Amount  |  | Price                             |

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

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SEC 1474  
 (9-02)

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

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| 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) |                       |                            |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-----------------------|----------------------------|
|  |  |                                      |  | Code                           | V (A) (D)   | Date Exercisable   | Expiration Date   | Title                 | Amount or Number of Shares |
| 07LTIP Stock Option                        | \$ 25.81 <sup>(1)</sup>                                | 02/13/2008                           |  | A                              | 8,645   | 01/01/2009 <sup>(2)</sup>                                | 07/01/2017  | Coremark Common Stock | 8,645                      |
| Restricted Stock Units 07LTIP              | \$ 0   | 02/13/2008                           |  | A                              | 8,645   | 01/01/2009 <sup>(3)</sup>                                | 07/01/2017  | Coremark Common Stock | 8,645                      |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |                  |       |
|--|---------------|-----------|------------------|-------|
|  | Director      | 10% Owner | Officer          | Other |
| Murray Christopher M<br>395 OYSTER POINT BLVD., SUITE 415<br>SOUTH SAN FRANCISCO, CA 94080 |               |           | SVP of Marketing |       |

## Signatures

Stacy  
Loretz-Congdon, POA 02/15/2008  
 \*\*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 exercise price was set at the closing price of the company's stock as reported by the NASDAQ Stock Market on January 31, 2008, the date the Board of Directors approved the grant.
- (2) One-third of the options vest on January 1, 2009 and the remaining two-thirds vest in equal quarterly installments over fiscal 2009 and 2010.
- (3) One-third of the restricted stock units vest on January 1, 2009 and the remaining two-thirds vest in equal quarterly installments over fiscal 2009 and 2010.

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.