

Murray Christopher M  
 Form 4  
 July 02, 2008

**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 \*  
 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)  
 07/02/2008

\_\_\_\_ 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)  | Price   |  |                                   |
|                                 |                                      |  |                                | Code  | V   | Amount   |                                   |
| Coremark Common Stock           | 07/02/2008                           |  | M                              | 622 (1) A   | \$ 0  | 2,267  | D                                 |
| Coremark Common Stock           | 07/02/2008                           |  | M                              | 194 (2) A   | \$ 0  | 2,461  | D                                 |
| Coremark Common Stock           | 07/02/2008                           |  | S                              | 99 D  | \$ 25.65  | 2,362  | D                                 |
|                                 | 07/02/2008                           |  | S                              | 196 D   |   | 2,166  | D                                 |

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|                             |            |  |   |     |   |             |       |   |
|-----------------------------|------------|--|---|-----|---|-------------|-------|---|
| Coremark<br>Common<br>Stock |            |  |   |     |   | \$<br>25.63 |       |   |
| Coremark<br>Common<br>Stock | 07/02/2008 |  | S | 500 | D | \$<br>25.62 | 1,666 | D |
| Coremark<br>Common<br>Stock | 07/02/2008 |  | S | 21  | D | \$<br>25.61 | 1,645 | D |

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 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) | 8. Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Restricted Stock Units 07LTIP              | \$ 0   | 07/02/2008                           |  | M                              | 622   | 07/02/2008 07/01/2017                                    | Coremark Common Stock   | 622                           |
| Restricted Stock Units 04 LTIP             | \$ 0   | 07/02/2008                           |  | M                              | 194   | 08/23/2005 08/23/2014                                    | Coremark Common Stock   | 194                           |

## Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Murray Christopher M

SVP of Marketing

395 OYSTER POINT BLVD., SUITE 415  
SOUTH SAN FRANCISCO, CA 94080

## Signatures

|  |                     |
|--|---------------------|
| Stacy<br>Loretz-Congdon, POA                       | 07/02/2008          |
| <small>**Signature of Reporting<br/>Person</small> | <small>Date</small> |

## 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) Sell sufficient to cover taxes
  - (2) Sell sufficient to cover taxes

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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