

McPherson Scott E  
Form 4  
July 27, 2010

**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 \*  
McPherson Scott E

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)

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

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

395 OYSTER POINT BLVD.,  
SUITE 415

07/26/2010

SVP - Corporate Development

(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

(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           | 07/26/2010                           |  | M                              |   | 12,918  | A  | \$ 15.5                           | 41,667 | D | Direct Ownership |
| Coremark Common Stock           | 07/26/2010                           |  | S                              |   | 4,600   | D  | \$ 30                             | 37,067 | D | Direct Ownership |
| Coremark Common Stock           | 07/26/2010                           |  | S                              |   | 100   | D  | \$ 30.005                         | 36,967 | D | Direct Ownership |
|                                 | 07/26/2010                           |  | S                              |   | 100   | D  | \$ 30.01                          | 36,867 | D | Direct Ownership |

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Coremark  
Common  
Stock

Coremark  
Common 07/26/2010 S 400 D \$ 30.02 36,467 D  
Stock

Coremark  
Common 07/26/2010 S 500 D \$ 30.03 35,967 D  
Stock

Coremark  
Common 07/26/2010 S 600 D \$ 30.06 35,367 D  
Stock

Coremark  
Common 07/26/2010 S 2,266 D \$ 30.11 33,101 D  
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)

**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) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
|  |  |                                      |  | Code                           | V (A) (D)   | Date Exercisable Expiration Date                         | Title Amount or Number of Shares                              |
| 04LTIP<br>plan grtd<br>8-23-2004<br>NQ     | \$ 15.5  | 07/26/2010                           |  | M                              | 12,918  | 08/23/2005 08/23/2011                                    | Coremark<br>Common 12,918<br>Stock                            |

## Reporting Owners

**Reporting Owner Name / Address**

**Relationships**

Director 10% Owner Officer Other

McPherson Scott E

SVP - Corporate

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

Development

## Signatures

Amy Morgan,  
POA

07/27/2010

    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).

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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