

Walsh Christopher L
 Form 4
 June 15, 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 *
 Walsh Christopher L

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)
 06/11/2010

____ Director _____ 10% Owner
 ____ Officer (give title below) ____ Other (specify below)
 Senior VP-US Distribution

395 OYSTER POINT BLVD.,
 SUITE 415

(Street)

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

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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | Code | V Amount (A) or (D) Price | | | |
| Coremark Common Stock | 06/11/2010 | | M | 11,803 A \$ 15.5 | 47,708 | D | |
| Coremark Common Stock | 06/11/2010 | | S | 664 D \$ 27.55 | 47,044 | D | |
| Coremark Common Stock | 06/11/2010 | | S | 600 D \$ 27.5533 | 46,444 | D | |
| | 06/11/2010 | | S | 200 D \$ 27.56 | 46,244 | D | |

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| | | | | | | | |
|-----------------------------|------------|---|-------|---|------------|--------|---|
| Coremark Common Stock | | | | | | | |
| Coremark Common Stock | 06/11/2010 | S | 1,405 | D | \$ 27.57 | 44,839 | D |
| Coremark Common Stock | 06/11/2010 | S | 500 | D | \$ 27.573 | 44,339 | D |
| Coremark Common Stock | 06/11/2010 | S | 200 | D | \$ 27.5775 | 44,139 | D |
| Coremark Common Stock | 06/11/2010 | S | 200 | D | \$ 27.5787 | 43,939 | D |
| Coremark Common Stock | 06/11/2010 | S | 498 | D | \$ 27.58 | 43,441 | D |
| Coremark Common Stock | 06/11/2010 | S | 500 | D | \$ 27.582 | 42,941 | D |
| Coremark Common Stock | 06/11/2010 | S | 200 | D | \$ 27.585 | 42,741 | D |
| Coremark Common Stock | 06/11/2010 | S | 200 | D | \$ 27.59 | 42,541 | D |
| Coremark Common Stock | 06/11/2010 | S | 200 | D | \$ 27.605 | 42,341 | D |
| Coremark Common Stock | 06/11/2010 | S | 100 | D | \$ 27.61 | 42,241 | D |
| Coremark Common Stock | 06/11/2010 | S | 536 | D | \$ 27.62 | 41,705 | D |
| Coremark Common Stock | 06/11/2010 | S | 600 | D | \$ 27.63 | 41,105 | D |
| Coremark Common Stock | 06/11/2010 | S | 400 | D | \$ 27.6313 | 40,705 | D |
| Coremark Common | 06/11/2010 | S | 400 | D | \$ 27.6375 | 40,305 | D |

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Stock

Coremark

Common 06/11/2010 S 200 D \$ 27.64 40,105 D
Stock

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

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(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 plan grtd 8-23-2004 NQ | \$ 15.5 | 06/11/2010 | | M | 11,803 | 08/23/2005 08/23/2011 | Coremark Common Stock 11,800 |

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

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

Senior VP-US
Distribution

Signatures

Amy Morgan, 06/15/2010
POA

**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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