Perkins Thomas B
Form 4
September 16, 2010

# FORM 4

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

**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

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).

(Print or Type Responses)

1. Name and Address of Reporting Person *
Perkins Thomas B

(Last) (First) (Middle)

395 OYSTER POINT BLVD., SUITE 415

(Street)

SOUTH SAN FRANCISCO, CA 94080

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading Symbol
Core-Mark Holding Company, Inc. [CORE]

3. Date of Earliest Transaction (Month/Day/Year)
09/15/2010

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

_____ Director _____ 10% Owner
_____ Officer (give title below) _____ Other (specify below)
SVP of Resources

6. Individual or Joint/Group Filing(Check Applicable Line)
_X_ Form filed by One Reporting Person
___ Form filed by More than One Reporting Person

**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 | 09/15/2010 | | M | | 15,278 | A | $ 15.5 | 30,349 | D | |
| Coremark Common Stock | 09/15/2010 | | S | | 100 | D | $ 27.941 | 30,249 | D | |
| Coremark Common Stock | 09/15/2010 | | S | | 700 | D | $ 27.98 | 29,549 | D | |
| | 09/15/2010 | | S | | 600 | D | $ 28 | 28,949 | D | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Coremark Common Stock | | | | | | | |
| Coremark Common Stock | 09/15/2010 | S | 600 | D | $ 28.01 | 28,349 | D |
| Coremark Common Stock | 09/15/2010 | S | 200 | D | $ 28.05 | 28,149 | D |
| Coremark Common Stock | 09/15/2010 | S | 200 | D | $ 28.08 | 27,949 | D |
| Coremark Common Stock | 09/15/2010 | S | 500 | D | $ 28.09 | 27,449 | D |
| Coremark Common Stock | 09/15/2010 | S | 100 | D | $ 28.1 | 27,349 | D |
| Coremark Common Stock | 09/15/2010 | S | 201 | D | $ 28.11 | 27,148 | D |
| Coremark Common Stock | 09/15/2010 | S | 300 | D | $ 28.13 | 26,848 | D |
| Coremark Common Stock | 09/15/2010 | S | 600 | D | $ 28.17 | 26,248 | D |
| Coremark Common Stock | 09/15/2010 | S | 400 | D | $ 28.19 | 25,848 | D |
| Coremark Common Stock | 09/15/2010 | S | 300 | D | $ 28.2 | 25,548 | D |
| Coremark Common Stock | 09/15/2010 | S | 200 | D | $ 28.205 | 25,348 | D |
| Coremark Common Stock | 09/15/2010 | S | 600 | D | $ 28.21 | 24,748 | D |
| Coremark Common Stock | 09/15/2010 | S | 500 | D | $ 28.22 | 24,248 | D |
| Coremark Common | 09/15/2010 | S | 400 | D | $ 28.23 | 23,848 | D |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Stock | | | | | | | | |
| Coremark Common Stock | 09/15/2010 | | S | 200 | D | $ 28.265 | 23,648 | D |
| Coremark Common Stock | 09/15/2010 | | S | 300 | D | $ 28.2667 | 23,348 | D |
| Coremark Common Stock | 09/15/2010 | | S | 217 | D | $ 28.27 | 23,131 | D |
| Coremark Common Stock | 09/15/2010 | | S | 783 | D | $ 28.2955 | 22,348 | D |
| Coremark Common Stock | 09/15/2010 | | S | 200 | D | $ 28.38 | 22,148 | D |
| Coremark Common Stock | 09/15/2010 | | S | 300 | D | $ 28.4 | 21,848 | D |
| Coremark Common Stock | 09/15/2010 | | S | 868 | D | $ 28.4142 | 20,980 | D |
| Coremark Common Stock | 09/15/2010 | | S | 1,500 | D | $ 28.4187 | 19,480 | D |

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

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**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 | 09/15/2010 | | M | 15,278 | 08/23/2005 | 08/23/2011 | Coremark Common Stock | 15,27 |

# Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---|---|---|---|
| | Director | 10% Owner | Officer | Other |
| Perkins Thomas B<br>395 OYSTER POINT BLVD., SUITE 415<br>SOUTH SAN FRANCISCO, CA 94080 | | | SVP of Resources | |

# Signatures

| | |
|---|---|
| Amy Morgan, POA | 09/16/2010 |
| **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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