

Core-Mark Holding Company, Inc.
Form 4
May 17, 2007

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 *
Antholzner Gregory P

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)
05/15/2007

____ Director
____ Officer (give title below) _____ 10% Owner
____ Other (specify below)
VP of Finance and Treasurer

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 Ownership (Instr. 4) | | | |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|-------|---|--|
| | | | | (A) or (D) | Price | | | | | |
| | | | | Code | V | Amount | | | | |
| Coremark Common Stock | 05/15/2007 | | M | | 3,000 | A | \$ 15.5 | 3,000 | D | |
| Coremark Common Stock | 05/15/2007 | | S ⁽¹⁾ | | 100 | D | \$ 35.61 | 2,900 | D | |
| Coremark Common Stock | 05/15/2007 | | S ⁽²⁾ | | 100 | D | \$ 35.53 | 2,800 | D | |
| | 05/15/2007 | | S ⁽³⁾ | | 150 | D | | 2,650 | D | |

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| | | | | | | | |
|-----------------------------|------------|-------------------------|-----|---|-------------|-------|---|
| Coremark Common Stock | | | | | \$ 35.46 | | |
| Coremark Common Stock | 05/15/2007 | <u>S⁽⁴⁾</u> | 150 | D | \$ 35.45 | 2,500 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽⁵⁾</u> | 400 | D | \$ 35.44 | 2,100 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽⁶⁾</u> | 100 | D | \$ 35.43 | 2,000 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽⁷⁾</u> | 100 | D | \$ 35.42 | 1,900 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽⁸⁾</u> | 100 | D | \$ 35.41 | 1,800 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽⁹⁾</u> | 50 | D | \$ 35.4 | 1,750 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽¹⁰⁾</u> | 100 | D | \$ 35.38 | 1,650 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽¹¹⁾</u> | 150 | D | \$ 35.37 | 1,500 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽¹²⁾</u> | 100 | D | \$ 35.33 | 1,400 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽¹³⁾</u> | 100 | D | \$ 35.31 | 1,300 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽¹⁴⁾</u> | 100 | D | \$ 35.3 | 1,200 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽¹⁵⁾</u> | 100 | D | \$ 35.29 | 1,100 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽¹⁶⁾</u> | 250 | D | \$ 35.28 | 850 | D |
| Coremark Common | 05/15/2007 | <u>S⁽¹⁷⁾</u> | 100 | D | \$ 35.27 | 750 | D |

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Stock

| | | | | | | | |
|-----------------------------|------------|-------------------------|-----|---|-------------|-----|---|
| Coremark Common Stock | 05/15/2007 | <u>S⁽¹⁸⁾</u> | 100 | D | \$ 35.26 | 650 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽¹⁹⁾</u> | 100 | D | \$ 35.25 | 550 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽²⁰⁾</u> | 100 | D | \$ 35.24 | 450 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽²¹⁾</u> | 50 | D | \$ 35.23 | 400 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽²²⁾</u> | 200 | D | \$ 35.19 | 200 | D |
| Coremark Common Stock | 05/15/2007 | <u>S⁽²³⁾</u> | 200 | D | \$ 35.16 | 0 | D |

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 plan grtd 8-23-2004 NQ | \$ 15.5 | 05/15/2007 | | M | 3,000 | 08/23/2005 | 08/23/2011 | Coremark Common Stock | 50,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|-----------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Antholzner Gregory P 395 OYSTER POINT BLVD., SUITE 415 SOUTH SAN FRANCISCO, CA 94080 | | | VP of Finance and Treasurer | |

Signatures

S
Loretz-Congdon,
POA

05/17/2007

**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) Sold per Sec. 10b5-1program
 - (2) Sold per Sec. 10b5-1program
 - (3) Sold per Sec. 10b5-1program
 - (4) Sold per Sec. 10b5-1program
 - (5) Sold per Sec. 10b5-1program
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 - (21) Sold per Sec. 10b5-1program
 - (22) Sold per Sec. 10b5-1program
 - (23) Sold per Sec. 10b5-1program

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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