

Perkins Thomas B  
Form 4  
September 16, 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 \*  
Perkins Thomas B

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)  
09/15/2010

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

SOUTH SAN  
FRANCISCO, CA 94080

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

(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		
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

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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

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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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(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

09/15/2010

M

15,278 08/23/2005 08/23/2011

Coremark  
 Common 15,27  
 Stock

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Perkins Thomas B 395 OYSTER POINT BLVD., SUITE 415 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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