Perkins Thomas B Form 4 April 05, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

0.5

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response...

if no longer subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

Check this box

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

1(b).

(Print or Type Responses)

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

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

Core-Mark Holding Company, Inc.

(Month/Day/Year)

03/31/2010

[CORE]

(Check all applicable)

SVP of Resources

(Last)

(First) (Middle) 3. Date of Earliest Transaction

Director 10% Owner Officer (give title

below)

Other (specify

395 OYSTER POINT BLVD.,

(Street)

SUITE 415

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check Applicable Line)

Filed(Month/Day/Year)

X Form filed by One Reporting Person Form filed by More than One Reporting

SOUTH SAN FRANCISCO, CA 94080

(City)	(State)	Zip) Table	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. Transactio Code (Instr. 8)	4. Securities Acquired cior(A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or		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)		
Coremark Common Stock	03/31/2010		Code V M	Amount 812	(D)	Price \$ 0.01	10,717	D		
Coremark Common Stock	03/31/2010		F	230 (1)	D	\$ 30.61	10,487	D		
Coremark Common Stock	03/31/2010		F	85 (2)	D	\$ 30.61	10,402	D		
	03/31/2010		F	264 (3)	D		10,138	D		

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Coremark Common 30.16 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. 5. Number Transactionof Code Derivative (Instr. 8) Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		Expiration Date		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
Restricted Stock Units	\$ 0.01	03/31/2010		M		812	02/01/2010	01/21/2019	Coremark Common Stock	812

Reporting Owners

Reporting Owner Name / Address	Keiauonsinps						
	Director	10% Owner	Officer	Other			
Perkins Thomas R							

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

SVP of Resources

Signatures

07LTIP

Amy Morgan, 04/05/2010 **POA**

**Signature of Date Reporting Person

2 Reporting Owners

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) Shares withheld for taxes on Performance RSU Vesting previously reported in Table I
- (2) Shares withheld for taxes on Performance RSU Vesting previously reported in Table I
- (3) Shares withheld for taxes on RSU Vesting

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.