Core-Mark Holding Company, Inc.

Form 4

February 29, 2008

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

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SECURITIES Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

may continue. See Instruction 1(b).

30(h) of the Investment Company Act of 1940

(Print or Type Responses)

(Last)

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

(First) (Middle)

395 OYSTER POINT BLVD., **SUITE 415**

(Street)

2. Issuer Name and Ticker or Trading

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Symbol

Core-Mark Holding Company, Inc.

[CORE] 3. Date of Earliest Transaction

(Month/Day/Year) 02/29/2008

Filed(Month/Day/Year)

4. If Amendment, Date Original

5. Relationship of Reporting Person(s) to

Issuer

(Check all applicable)

Director 10% Owner Other (specify Officer (give title

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

SOUTH SAN FRANCISCO, CA 94080

(City)	(State) (Z	(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 or(A) or Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	or (D)	Price	(Instr. 3 and 4)		
Coremark Common Stock	02/29/2008		M	2,332	A	\$ 0	2,332	D	
Coremark Common Stock	02/29/2008		S	25	D	\$ 26.49	2,307	D	
Coremark Common Stock	02/29/2008		S	100	D	\$ 26.64	2,207	D	
	02/29/2008		S	323	D		1,884	D	

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Coremark Common Stock						\$ 26.67		
Coremark Common Stock	02/29/2008		S	100	D	\$ 26.68	1,784	D
Coremark Common Stock	02/29/2008		S	100	D	\$ 26.69	1,684	D
Coremark Common Stock	02/29/2008		S	400	D	\$ 26.8	1,284	D
Coremark Common Stock	02/29/2008		S	100	D	\$ 26.96	1,184	D
Coremark Common Stock	02/29/2008		S	100	D	\$ 27.01	1,084	D
Coremark Common Stock	02/29/2008		S	100	D	\$ 27.06	984	D
Coremark Common Stock	02/29/2008		S	100	D	\$ 27.09	884	D
Coremark Common Stock	02/29/2008		S	100	D	\$ 27.11	784	D
Coremark Common Stock	02/29/2008		S	100	D	\$ 27.12	684	D
Coremark Common Stock	02/29/2008		S	184	D	\$ 27.26	500	D
Coremark Common Stock	02/29/2008		S	100	D	\$ 27.31	400	D
Coremark Common Stock	02/29/2008		S	100	D	\$ 27.37	300	D
Coremark Common Stock	02/29/2008		S	100	D	\$ 27.39	200	D
Coremark Common	02/29/2008		S	100	D	\$ 27.43	100	D

Stock

Coremark

Common 02/29/2008 S 100 D \$ 27.45

Stock

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. 5. Number Transaction Derivative Code Securities (Instr. 8) 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
Restricted Stock Units 05 LTIP	\$ 0	02/29/2008		M		2,332	02/01/2006	02/08/2015	Coremark Common Stock	2,332

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

Perkins Thomas B

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

SVP of Resources

Signatures

Stacy

Loretz-Congdon, POA 02/29/2008

**Signature of Reporting Date Person

Reporting Owners 3

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).

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