Loretz Congdon Stacy Form 4 February 18, 2009

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF subject to **SECURITIES** Section 16.

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. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

Form 4 or

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Loretz Congdon Stacy Issuer Symbol Core-Mark Holding Company, Inc. (Check all applicable) [CORE] (Last) (First) (Middle) 3. Date of Earliest Transaction Director 10% Owner Officer (give title _ Other (specify (Month/Day/Year) below) 395 OYSTER POINT BLVD., 01/01/2009 Senior VP & CFO **SUITE 415** (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting **SOUTH SAN**

FRANCISCO, CA 94080

Stock

02/12/2009

(City)	(State) (Z	Zip) Table	I - Non-Do	erivative S	Securi	ities Acqu	ired, Disposed of	, or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securities Acquired on(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	01/01/2009		M	2,881	A	\$ 0.01	6,486	D	
Coremark Common Stock	01/01/2009		F	1,032 (1)	D	\$ 21.52	5,454	D	
Coremark Common	02/12/2009		A	3,103	A	\$ 0.01	8,557	D	

447 ⁽³⁾ D

8,110

D

F

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3235-0287

January 31,

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Coremark 18.64 Common Stock

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. Transactio Code (Instr. 8)	5. Number out 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
Restricted Stock Units 07LTIP	\$ 0	01/01/2009		M	2,881	01/01/2009	07/01/2017	Coremark Common Stock	2,881

Reporting Owners

Reporting Owner Name / Address	Relationships					
coporting of the control of the cont	Director	10% Owner	Officer	Other		
Loretz Congdon Stacy 395 OYSTER POINT BLVD., SUITE 415			Senior VP &			
SOUTH SAN FRANCISCO, CA 94080 Signatures			CFO			

Amy Morgan -02/18/2009 **POA**

**Signature of Date Reporting Person

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).

Reporting Owners 2

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- (1) Shares withheld for taxes
- (2) 2007 Long Term Incentive Plan Performance Award. Performance criteria met, 33% vested on 01/21/09. Remainder vests quarterly over the next two years beginning 03/31/09.
- (3) Shares withheld for taxes.

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.