Rolheiser Eric Form 4 April 04, 2011

FORM 4

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

OMB Number:

Check this box if no longer subject to Section 16. Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations may continue. 30(h) of the Investment Company Act of 1940 See Instruction

Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

(First)

(State)

Rolheiser Eric

2. Issuer Name and Ticker or Trading

Symbol

Core-Mark Holding Company, Inc.

[CORE]

(Last)

3. Date of Earliest Transaction

(Month/Day/Year)

03/31/2011

5. Relationship of Reporting Person(s) to

OMB APPROVAL

Expires:

response...

Estimated average

burden hours per

3235-0287

January 31,

2005

0.5

Issuer

(Check all applicable)

395 OYSTER POINT BLVD.,

SUITE 415

Director 10% Owner Other (specify Officer (give title

below)

President - Canada Operations

(Street)

(Middle)

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

SOUTH SAN FRANCISCO, CA 94080

	(City)	(State) (Z	(Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned							ly 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 action(A) or Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Ownership Form: Direct Owned (D) or Following Indirect (I) Reported (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
a	C 1			Code V	Amount	or (D)	Price	Transaction(s) (Instr. 3 and 4)		
	Coremark Common Stock	03/31/2011		M	333	A	\$ 0.01	4,965	D	
	Coremark Common Stock	03/31/2011		M	458	A	\$ 0.01	5,423	D	
	Coremark Common Stock	03/31/2011		F	127 (1)	D	\$ 33.05	5,296	D	
		03/31/2011		F	347 (2)	D		4,949	D	

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Coremark	\$
Common	33.05
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. Transacti Code (Instr. 8)			•		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	03/31/2011		M		333	02/01/2011	01/21/2016	Coremark Common Stock	333
Restricted Stock Units 07LTIP	\$ 0.01	03/31/2011		M		458	02/01/2011	01/20/2017	Coremark Common Stock	458

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
Rolheiser Eric 395 OYSTER POINT BLVD., SUITE 415 SOUTH SAN FRANCISCO, CA 94080			President - Canada Operations				
Signatures			operations				

Amy Morgan, 04/04/2011 POA

Date

Reporting Owners 2 **Signature of 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).
- (1) Shares withheld for taxes on Performance RSU Vesting previously reported in Table I
- (2) 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.

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