Antholzner Gregory P Form 4 August 31, 2006

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

OMB APPROVAL

3235-0287

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Check this box

obligations may continue. See Instruction

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 *

Antholzner Gregory P

2. Issuer Name and Ticker or Trading

Symbol

Core-Mark Holding Company, Inc.

[CORE]

Issuer

below)

(Check all applicable)

(Last)

(First) (Middle)

3. Date of Earliest Transaction

(Month/Day/Year) 08/31/2006

Director 10% Owner Other (specify Officer (give title

5. Relationship of Reporting Person(s) to

VP of Finance and Control

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

> (Street) 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

(State)

(City)	(State)	Table I - Non-Derivative Securities Acquired, Di						, 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. Transactic Code (Instr. 8)		sed of		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	08/31/2006		M	5,000	A	\$ 15.5	5,000	D				
Coremark Common Stock	08/31/2006		S(1)	5,000	D	\$ 31.4359	0	D				

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

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Other

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. Transactic Code (Instr. 8)	Transaction Derivative Code Securities		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	08/31/2006		M		5,000	08/23/2005	08/23/2011	Coremark Common Stock	5,000

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer			

Antholzner Gregory P VP of 395 OYSTER POINT BLVD., SUITE 415 Finance and SOUTH SAN FRANCISCO, CA 94080 Control

Signatures

James Wall, POA 08/31/2006

**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).
- (1) Sold per Sec. 10b5-1program

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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