

ARCH CAPITAL GROUP LTD.  
Form 4  
August 04, 2005

**FORM 4**

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
RATHGEBER JOHN F

2. Issuer Name and Ticker or Trading Symbol  
ARCH CAPITAL GROUP LTD.  
[ACGL]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)  
08/02/2005

\_\_\_\_ Director  
\_\_\_\_ Officer (give title below)  10% Owner  
\_\_\_\_ Other (specify below)  
Officer of subsidiary

C/O ARCH REINSURANCE COMPANY, 55 MADISON AVENUE

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

MORRISTOWN, NJ 07962

(City) (State) (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 (A) or Disposed of (D) (Instr. 3, 4 and 5)	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 Ownership (Instr. 4)
			Code	V	Amount or Price		
Common Shares, \$0.01 par value per share	08/02/2005		M		20,000 A \$ 23.8	36,428	D
Common Shares, \$0.01 par value per share	08/02/2005		S		100 D \$ 45.39	36,328	D

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Common Shares, \$0.01 par value per share	08/02/2005	S	200	D	\$ 45.38	36,128	D
Common Shares, \$0.01 par value per share	08/02/2005	S	300	D	\$ 45.37	35,828	D
Common Shares, \$0.01 par value per share	08/02/2005	S	100	D	\$ 45.36	35,728	D
Common Shares, \$0.01 par value per share	08/02/2005	S	200	D	\$ 45.35	35,528	D
Common Shares, \$0.01 par value per share	08/02/2005	S	14,678	D	\$ 45.03	20,850	D
Common Shares, \$0.01 par value per share	08/02/2005	S	400	D	\$ 45.02	20,450	D
Common Shares, \$0.01 par value per share	08/02/2005	S	4,022	D	\$ 45	16,428	D
Common Shares, \$0.01 par value per share	08/02/2005	S	978	D	\$ 45	15,450	D

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

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

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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. Transaction Code (Instr. 8)	5. Number of 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)	8. Amount or Number of Shares
Stock Option (right to buy)	\$ 23.8	08/02/2005		M	20,000	<u>(1)</u> 12/18/2011	Common Shares, \$.01 par value per share	20,000

## Reporting Owners

### Reporting Owner Name / Address

### Relationships

Director 10% Owner Officer Other

RATHGEBER JOHN F  
C/O ARCH REINSURANCE COMPANY  
55 MADISON AVENUE  
MORRISTOWN, NJ 07962

Officer of subsidiary

## Signatures

/s/ John F.  
Rathgeber 08/03/2005

\_\_Signature of Reporting Person Date

## 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) Represents an employee stock option that became exercisable in three equal annual installments, with the first installment exercisable on December 18, 2001 and the next two installments on December 18, 2003 and December 18, 2003.

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.