

ARCH CAPITAL GROUP LTD.  
Form 4  
May 13, 2008

**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 \*  
PETRILLO LOUIS T

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)  
05/09/2008

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

ARCH CAPITAL SERVICES INC., 360 HAMILTON AVENUE, SUITE 600

(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

WHITE PLAINS, NY 10601

(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 Ownership (Instr. 4) |
|------------------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------|
|                                          |                                      |                                                    |                                | (A) or (D)                                                        | Price                                                                                         |                                                          |                                   |
|                                          |                                      |                                                    |                                | Code                                                              | V                                                                                             | Amount                                                   |                                   |
| Common Shares, \$.01 par value per share | 05/09/2008                           |                                                    | A                              | 5,000                                                             | A                                                                                             | 22,042                                                   | D                                 |
| Common Shares, \$.01 par value per share | 05/09/2008                           |                                                    | F                              | 661 <sup>(3)</sup>                                                | D                                                                                             | \$ 21,381                                                | D                                 |

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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. 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) |
|--------------------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|
| Stock Appreciation Right <sup>(2)</sup>    | \$ 69.3                                                | 05/09/2008                           |                                                    | A                              | 5,000                                                                                   | <sup>(2)</sup> 05/09/2018                                | Common Shares, \$01 par value per share                       |

## Reporting Owners

| Reporting Owner Name / Address                                                                             | Relationships |           |                          |       |
|------------------------------------------------------------------------------------------------------------|---------------|-----------|--------------------------|-------|
|                                                                                                            | Director      | 10% Owner | Officer                  | Other |
| PETRILLO LOUIS T<br>ARCH CAPITAL SERVICES INC.<br>360 HAMILTON AVENUE, SUITE 600<br>WHITE PLAINS, NY 10601 |               |           | Officer of<br>Subsidiary |       |

## Signatures

/s/ Louis T.  
Petrillo

05/12/2008

\*\*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 restricted share units that vest in three equal annual installments on May 9th in each of 2009, 2010 and 2011, subject to the applicable award agreement.

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- (2) The stock appreciation right will become exercisable in three equal annual installments, with the first installment becoming exercisable on May 9, 2009 and the next two installments on May 9, 2010 and May 9, 2011, subject to the terms of the applicable award agreement.
- (3) Represents shares withheld to pay taxes due upon the vesting of restricted stock.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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