

PETRILLO LOUIS T  
 Form 4  
 May 13, 2013

**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)  
 05/09/2012

\_\_\_\_ 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)
			Code	V	Amount	(A) or (D)	Price
Common Shares, \$.0033 par value per share	05/09/2012		A		8,500	A	\$ 83,293
Common Shares, \$.0033 par value per share	05/09/2013		F		1,648 (3)	D	\$ 53.53 81,645

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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>	\$ 53.53	05/09/2013		A	8,500	<sup>(2)</sup> 05/09/2023	Common Shares, \$0.0033 par value per share

## Reporting Owners

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

## Signatures

/s/ Louis T.  
Petrillo

05/13/2013

\*\*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 shares that vest in three equal annual installments on May 9th in each of 2014, 2015 and 2016, 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, 2014 and the next two installments on May 9, 2015 and May 9, 2016, subject to the applicable award agreement.
- (3) Represents shares withheld to pay taxes due upon 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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