

PETRILLO LOUIS T  
 Form 4  
 November 16, 2009

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

(Last) (First) (Middle)

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

3. Date of Earliest Transaction  
 (Month/Day/Year)  
 11/12/2009

(Street)  
 WHITE PLAINS, NY 10601

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

(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 Beneficial Ownership (Instr. 4)
			Code	V	Amount	(D)	Price
Common Shares, \$0.01 par value per share	11/12/2009		M		3,750	A	\$ 16
					27,760		
Common Shares, \$0.01 par value per share	11/12/2009		M		6,250	A	\$ 16
					34,010		

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Common Shares, \$0.01 par value per share	11/12/2009	M	10,000	A	\$ 15	44,010	D
Common Shares, \$0.01 par value per share	11/12/2009	M	40,000	A	\$ 20	84,010	D
Common Shares, \$0.01 par value per share	11/12/2009	S	60,000	D	\$ 70.0252	24,010	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)	\$ 16	11/12/2009		M	3,750	<u>(1)</u> 05/05/2010	Common Shares, \$0.01 par value per share	3,750
Stock Option (right to buy)	\$ 16	11/12/2009		M	6,250	<u>(1)</u> 05/05/2010	Common Shares, \$0.01 par value per share	6,250
Stock Option	\$ 15	11/12/2009		M	10,000	<u>(1)</u> 01/30/2011	Common Shares,	10,000

(right to buy)								\$0.01 par value per share
Stock Option (right to buy)	\$ 20	11/12/2009	M	40,000	(1)	10/23/2011	Common Shares, \$0.01 par value per share	40,000

## 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

11/16/2009

\*\*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) Pursuant to the applicable agreements, such options vested and became exercisable on or before January 30, 2005.

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.