PETRILLO LOUIS T

Check this box

if no longer

subject to

Section 16.

Form 4 or

Form 4 May 13, 2013

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Form 5 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).

(Last)

(Print or Type Responses)

1. Name and Address of Reporting Person *
2. Issuer Name and Ticker or Trading
PETRILLO LOUIS T

Symbol

ARCH CAPITAL GROUP LTD.

(Check all applicable)

[ACGL] (Check all applicable)

3. Date of Earliest Transaction

(Month/Day/Year)

05/09/2012

Director

X_ Officer (give title ___ Other (specify below)

Difficer of Subsidiary

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

(First)

(Middle)

(Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line)

X Form filed by One Reporting Person ____ Form filed by More than One Reporting

WHITE PLAINS, NY 10601

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired 5. Amount of 6. Ownership 7. Nature of Transaction(A) or Disposed of (D) Form: Direct Indirect Security (Month/Day/Year) Execution Date, if Securities (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially (D) or Beneficial (Month/Day/Year) (Instr. 8) Owned Indirect (I) Ownership Following (Instr. 4) (Instr. 4) Reported (A) Transaction(s) (Instr. 3 and 4) Code V Amount (D) Price Common

Shares, \$.0033 par 05/09/2012

\$.0033 par 05/09/2012 A 8,500 A (1) 83,293 D value per

Common Shares,

share

\$.0033 par 05/09/2013 F 1,648 D \$ 81,645 D

value per share

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

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SEC 1474 (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. Transacti Code (Instr. 8)	5. Number on 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)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Appreciation Right (2)	\$ 53.53	05/09/2013		A	8,500	<u>(2)</u>	05/09/2023	Common Shares, \$.0033 par value per share	8,500

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
DETDILLO LOLUC T							

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 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) 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.

Reporting Owners 2

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- 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. 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.