ARCH CAPITAL GROUP LTD. Form SC 13G December 24, 2009

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No.)*

ARCH CAPITAL GROUP LTD.

(Name of Issuer)

Common Shares, \$0.01 par value per share

(Title of Class of Securities)

G0450A105

(CUSIP Number)

December 14, 2009

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- x Rule 13d-1(c)
- o Rule 13d-1(d)

^{*}The remainder of this cover page shall be filled out for a reporting person s initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 (Act) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. G0450A105

1.	Names of Repo Cascade Invest			
2.	Check the App (a) (b)	ropriate Box if a o	Member of a Group (See Ir	nstructions)
3.	SEC Use Only			
4.	Citizenship or State of Washi	Place of Organizangton	ation	
			5.	Sole Voting Power 3,558,747(1)
Number of Shares Beneficially			6.	Shared Voting Power 0
Owned by Each Reporting Person With			7.	Sole Dispositive Power 3,558,747 (1)
1 010011 VV 1012			8.	Shared Dispositive Power 0
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 3,558,747 (1)			
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o			
11.	Percent of Class Represented by Amount in Row (9) 6%			
12.	Type of Repor	ting Person (See l	Instructions)	

⁽¹⁾ All Common Shares held by Cascade Investment, L.L.C. (Cascade) may be deemed to be beneficially owned by William H. Gates III as the sole member of Cascade.

CUSIP No. G0450A105

1.	Names of Reporting Per William H. Gates III	rsons		
2.	Check the Appropriate (a) o (b) o	Box if a Member of a Gr	oup (See Instructions)	
3.	SEC Use Only			
4.	Citizenship or Place of Organization United States of America			
Number of		5.	Sole Voting Power 3,558,747 (1)	
Shares Beneficially Owned by		6.	Shared Voting Power 0	
Each Reporting Person With		7.	Sole Dispositive Power 3,558,747 (1)	
		8.	Shared Dispositive Power 0	
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 3,558,747 (1)			
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o			
11.	Percent of Class Repres	ented by Amount in Row	v (9)	
12.	Type of Reporting Person	on (See Instructions)		

⁽¹⁾ All Common Shares held by Cascade Investment, L.L.C. (Cascade) may be deemed to be beneficially owned by William H. Gates III as the sole member of Cascade.

Item 1.				
	(a)	Name of Issuer		
		Arch Capital Group Ltd. (the Issuer)		
	(b)	Address of Issuer's Principal Executive Offices		
		Wessex House, 45 Reid Street, Hamilton HM 12, Bermuda		
Item 2.				
	(a)	Name of Person Filing		
		Cascade Investment, L.L.C. (Cascade)		
		William H. Gates III		
	(b)	Address of Principal Business Office or, if none, Residence		
	(0)	Address of Timesput Business office of, it note, Residence		
		Cascade - 2365 Carillon Point, Kirkland, Washington 98033		
		Mr. Gates - One Microsoft Way, Redmond, Washington 98052		
	(c)	Citizenship		
		Cascade is a limited liability company organized under the laws of the State of Washington.		
		The state of the s		
		Mr. Gates is a citizen of the United States of America.		
	(d)	Title of Class of Securities		
	(4)	Common Shares, \$0.01 par value per share		
	(e)	CUSIP Number		
	(0)	G0450A105		
		00130/1103		
Item 3.	If this statement is fi	led pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:		
100111 01	Not Applicable.	rea parsuant to 3.52 to 12 a 1 (b) of 2 to 12 a 2 (b) of (c), eneet whether the person fining is at		
	rvot rippiieuoie.			
Item 4.	Ownership	n		
		regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.		
		(a) Amount beneficially owned:		
		(-),		
		See the responses to Item 9 on the attached cover pages.		
		(b) Percent of class:		
		(b) Felcent of class.		
		See the responses to Item 11 on the attached cover pages.		
		(c) Number of shares as to which the person has:		
		(i) Sole power to vote or to direct the vote		

(ii)

(iii)

(iv)

See the responses to Item 5 on the attached cover pages.

See the responses to Item 6 on the attached cover pages.

See the responses to Item 7 on the attached cover pages. Shared power to dispose or to direct the disposition of

See the responses to Item 8 on the attached cover pages.

Sole power to dispose or to direct the disposition of

Shared power to vote or to direct the vote

Item 5. Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following o.

Item 6. Ownership of More than Five Percent on Behalf of Another Person

Not Applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being

Reported on By the Parent Holding Company or Control Person

Not Applicable

Item 8. Identification and Classification of Members of the Group

Not Applicable

Item 9. Notice of Dissolution of Group

Not Applicable

Item 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: December 24, 2009

CASCADE INVESTMENT, L.L.C.

By: *
Name: Alan Heuberger, Attorney-in-fact

for Michael Larson, Business Manager(1)

WILLIAM H. GATES III

*

Name: Alan Heuberger, Attorney-in-fact(2)

JOINT FILING AGREEMENT

We, the signatories of the statement to which this Joint Filing Agreement is attached, hereby agree that such statement is filed, and any amendments thereto filed by either or both of us will be filed, on behalf of each of us.

DATED: December 24, 2009

CASCADE INVESTMENT, L.L.C.

By: *
Name: Alan Heuberger, Attorney-in-fact

for Michael Larson, Business Manager(1)

WILLIAM H. GATES III

Bv:

Name: Alan Heuberger, Attorney-in-fact(2)

* By: <u>/s/Alan Heuberger</u> Alan Heuberger

Duly authorized under Special Limited Power of Attorney appointing Alan Heuberger attorney-in-fact, dated August 12, 2008, by and on behalf of Michael Larson, filed as Exhibit 99.1 to Amendment No. 1 to Cascade s Schedule 13D with respect to Otter Tail Corporation filed on

April 15, 2009, SEC File No. 005-06638, and incorporated by reference herein.

(2) Duly authorized under Special Limited Power of Attorney appointing Alan Heuberger attorney-in-fact, dated August 12, 2008, by and on behalf of William H. Gates III, filed as Exhibit 99.2 to Amendment No. 1 to Cascade s Schedule 13D with respect to Otter Tail Corporation filed on April 15, 2009, SEC File No. 005-06638, and incorporated by reference herein.