ARCH CAPITAL GROUP LTD. Form SC 13G February 11, 2010

SCHEDULE 13G

(Rule 13d-102)

Information to be Included in Statements Filed Pursuant to Rule 13d-1(b), (c) and (d) and Amendments Thereto Filed Pursuant to Rule 13d-2.

SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

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

Arch Capital Group Ltd

(Name of Issuer)

Common Stock

(Title of Class of Securities)

G0450A105

(CUSIP Number)

December 31, 2009

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

(Date of Event Which Requires Filing of this Statement)

- [X] Rule 13d-1(b)
- [_] Rule 13d-1(c)
- [_] 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).

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CUS	IP No. G045	0A1	05 13G		
1	NAME OF REP	ORT	ING PERSON		
	Artisan Pa	rtn	ers Holdings LP		
2	CHECK THE A		OPRIATE BOX IF A MEMBER OF A GROUP		[_]
	Not Applic	abl	е		
3	SEC USE ONL	Υ			
4	CITIZENSHIP	OR	PLACE OF ORGANIZATION		
		5	SOLE VOTING POWER		
	MBER OF SHARES		None 		
	EFICIALLY NED BY	6	SHARED VOTING POWER		
REI	EACH PORTING		4,987,394		
	PERSON WITH	7	SOLE DISPOSITIVE POWER		
	WIIH		None		
		8	SHARED DISPOSITIVE POWER		
			5,292,632		
9	AGGREGATE A	MOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	5,292,632				
10	CHECK BOX II		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ons)	5	[_]
	Not Applic	abl	е		
11	PERCENT OF	CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	9.4%				
12	TYPE OF REPO				
	НС				

Page 2 of 17

1	NAME OF REP	PORTING PERSON	
	Artisan In	nvestment Corporation	
2	CHECK THE A		[_]
	Not Applic	cable	
3	SEC USE ONL	ZY	
4	CITIZENSHIP	P OR PLACE OF ORGANIZATION	
	Wisconsin		
		5 SOLE VOTING POWER	
	MBER OF	None	
BEN		6 SHARED VOTING POWER	
	WNED BY EACH	4,987,394	
	PORTING PERSON	7 SOLE DISPOSITIVE POWER	
	WITH	None	
		8 SHARED DISPOSITIVE POWER	
		5,292,632	
9	AGGREGATE A	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	5,292,632		
10	CHECK BOX I	F THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	[_]
	Not Applic		,
 11		CLASS REPRESENTED BY AMOUNT IN ROW (9)	
	9.4%		
12	TYPE OF REP	PORTING PERSON	
	(see Instru	ictions)	
	HC		
		Page 3 of 17	
CITC	TD No. 2045	507105	
CUS	IP No. G045	50A105 13G	

1 NAME OF REPORTING PERSON

Artisan Pa	artners Limited Partnership	
2 CHECK THE A		ı) [_]
Not Applic	cable	
3 SEC USE ONL	LY	
4 CITIZENSHIP	P OR PLACE OF ORGANIZATION	
Delaware		
	5 SOLE VOTING POWER	
NUMBER OF	None	
SHARES BENEFICIALLY	6 SHARED VOTING POWER	
OWNED BY EACH	4,969,594	
REPORTING PERSON	7 SOLE DISPOSITIVE POWER	
WITH	None	
	8 SHARED DISPOSITIVE POWER	
	5,274,832	
9 AGGREGATE A	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
5,274,832		
10 CHECK BOX I (see Instru	IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES uctions)	[_]
Not Applic	cable	
11 PERCENT OF	CLASS REPRESENTED BY AMOUNT IN ROW (9)	
9.4%		
12 TYPE OF REP (see Instru	PORTING PERSON uctions)	
IA		
	Page 4 of 17	
CUSIP No. G045	50A105 13G	
1 NAME OF REP	PORTING PERSON	

Artisan Investments GP LLC

4

2	CHECK THE A		OPRIATE BOX IF A MEMBER OF A GROUP ons)		[_]
	Not Applic	abl	e		
3	SEC USE ONL	Υ			
4	CITIZENSHIP	OR	PLACE OF ORGANIZATION		
	Delaware				
		5	SOLE VOTING POWER		
	MBER OF		None		
BEN		6	SHARED VOTING POWER		
	WNED BY EACH		4,969,594		
	PORTING PERSON	7	SOLE DISPOSITIVE POWER		
	WITH		None		
		8	SHARED DISPOSITIVE POWER		
			5,274,832		
9	AGGREGATE A	MOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	5,274,832				
10	CHECK BOX I (see Instru		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	5	[_]
	Not Applic	abl	е		
11	PERCENT OF	CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	9.4%				
12	TYPE OF REP				
	HC				
			Page 5 of 17		
CUS	IP No. G045	0A1	05 13G		
 1	NAME OF REP				
Τ	ZFIC, Inc.		ING I BROOM		
2	CUECK THE A	DDD	ODDIATE BOY IF A MEMBED OF A CDOID		

	(see Instru	cti	ons)	(a) (b)	[_]
	Not Applic	able	e		
3	SEC USE ONL	Υ			
4	CITIZENSHIP Wisconsin	OR	PLACE OF ORGANIZATION		
		5	SOLE VOTING POWER		
NU	IMBER OF		None		
BEN		6	SHARED VOTING POWER		
	WNED BY EACH		4,987,394		
	PORTING PERSON	7	SOLE DISPOSITIVE POWER		
	WITH		None		
		8	SHARED DISPOSITIVE POWER		
			5,292,632		
10	5,292,632 CHECK BOX II (see Instru	cti			[_]
11	PERCENT OF	CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
12	TYPE OF REP				
	HC				
			Page 6 of 17		
CUS	SIP No. G045	0A1	05 13G		
1	NAME OF REP	ORT:	ING PERSON		
	Andrew A.	Zie			
2	CHECK THE A		OPRIATE BOX IF A MEMBER OF A GROUP	(a)	 [_]

	Not Applic	abl	e		
3	SEC USE ONL	Υ			
4	CITIZENSHIP	OR	PLACE OF ORGANIZATION		
	U.S.A.				
		5	SOLE VOTING POWER		
NU	MBER OF		None		
BEN	SHARES EFICIALLY	6	SHARED VOTING POWER		
С	WNED BY EACH		4,987,394		
	PORTING PERSON	7	SOLE DISPOSITIVE POWER		
	WITH		None		
		8	SHARED DISPOSITIVE POWER		
			5,292,632		
9	AGGREGATE A	MOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	5,292,632				
10	CHECK BOX I		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	;	[_]
	Not Applic	abl	e		
11	PERCENT OF		SS REPRESENTED BY AMOUNT IN ROW (9)		
	9.4%				
12	TYPE OF REP				
	IN				
			Page 7 of 17		
CUS	IP No. G045	0A1	05 13G		
1	NAME OF REP	ORT	ING PERSON		
	Carlene M.	Zi			
2	CHECK THE A		OPRIATE BOX IF A MEMBER OF A GROUP ons)	(a) (b)	[_] [_]

Not Applicable

7

3	SEC USE ONL	Y			
4	CITIZENSHIP	OR	PLACE OF ORGANIZATION		
	U.S.A.				
		5	SOLE VOTING POWER		
	MBER OF SHARES		None		
BEN		6	SHARED VOTING POWER		
	EACH		4,987,394		
	PORTING PERSON WITH	7	SOLE DISPOSITIVE POWER		
			None		
		8	SHARED DISPOSITIVE POWER		
			5,292,632		
9	AGGREGATE A	MOUI	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	5,292,632				
10	CHECK BOX I		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARE	 S	[_]
	Not Applic	abl	е		
11	PERCENT OF	CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	9.4%				
12	TYPE OF REP				
	IN				
			Page 8 of 17		
CUS	IP No. G045	0A1	05 13G		
1	NAME OF REP	ORT	ING PERSON		
	Artisan Fu	nds	, Inc.		
2	CHECK THE A		OPRIATE BOX IF A MEMBER OF A GROUP ons)	(a) (b)	[_] [_]
	Not Applic	abl	e		
3	SEC USE ONL	 Y			

4 CITIZEN	ISHIP OR PLACE OF ORGANIZATION
Wiscon	nsin
	5 SOLE VOTING POWER
NUMBER OF	None
SHARES BENEFICIALL	LY 6 SHARED VOTING POWER
OWNED BY EACH	3,213,076
REPORTING PERSON	7 SOLE DISPOSITIVE POWER
WITH	None
	8 SHARED DISPOSITIVE POWER
	3,213,076
9 AGGREGA	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
3,213,	076
	BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES astructions)
Not Ap	pplicable
 11 PERCENT	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
5.7%	
 12 TYPE OF	REPORTING PERSON
(see In	structions)
IC	
	Page 9 of 17
Item 1(a)	Name of Issuer:
	Arch Capital Group Ltd
Item 1(b)	Address of Issuer's Principal Executive Offices:
	Wessex House, 45 Reid Street, Hamilton HM 12, Bermuda
Item 2(a)	Name of Person Filing:
	Artisan Partners Holdings LP ("Artisan Holdings") Artisan Investment Corporation, the general partner of Artisan Holdings ("Artisan Corp.") Artisan Partners Limited Partnership ("Artisan Partners") Artisan Investments GP LLC, the general partner of Artisan Partners ("Artisan Investments") ZFIC, Inc., the sole stockholder of Artisan Corp. ("ZFIC")

Andrew A. Ziegler Carlene M. Ziegler Artisan Funds, Inc. ("Artisan Funds")

Item 2(b) Address of Principal Business Office:

Artisan Holdings, Artisan Corp., Artisan Partners, Artisan Investments, ZFIC, Mr. Ziegler,
Ms. Ziegler and Artisan Funds are all located at:

875 East Wisconsin Avenue, Suite 800 Milwaukee, WI 53202

Item 2(c) Citizenship:

Artisan Holdings is a Delaware limited partnership Artisan Corp. is a Wisconsin corporation Artisan Partners is a Delaware limited partnership Artisan Investments is a Delaware limited liability company ZFIC is a Wisconsin corporation Mr. Ziegler and Ms. Ziegler are U.S. citizens Artisan Funds is a Wisconsin corporation

Item 2(d) Title of Class of Securities:

Common Stock

Item 2(e) CUSIP Number:

G0450A105

- (d) Artisan Funds is an Investment Company under section 8 of the Investment Company $\mbox{Act.}$
- (e) Artisan Partners and Artisan Holdings are investment advisers registered under section 203 of the Investment Advisers Act of 1940; Artisan Holdings is the sole limited partner of Artisan Partners; Artisan Investments is the general partner of Artisan Partners; Artisan Corp is the general partner of Artisan Holdings; ZFIC is the sole stockholder of Artisan Corp.; Mr. Ziegler and Ms. Ziegler are the principal stockholders of ZFIC.

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Item 4 Ownership (at December 31, 2009):

(a) Amount owned "beneficially" within the meaning of rule 13d-3:

5,292,632

(b) Percent of class:

9.4% (based on 56,222,582 shares outstanding as of December $9,\ 2009$)

(c) Number of shares as to which such person has:

(i) sole power to vote or to direct the vote:

None

(ii) shared power to vote or to direct the vote:

4,987,394

(iii) sole power to dispose or to direct the disposition of:

None

(iv) shared power to dispose or to direct the disposition of:

5,292,632

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

Not Applicable

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

The shares reported herein have been acquired on behalf of discretionary clients of Artisan Partners and Artisan Holdings; as reported herein, Artisan Partners and Artisan Holdings hold 5,292,632 shares, including 3,213,076 shares on behalf of Artisan Funds. Persons other than Artisan Partners and Artisan Holdings are entitled to receive all dividends from, and proceeds from the sale of, those shares.

Not Applicable

Item 8 Identification and Classification of Members of the Group:

Not Applicable

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 acquired and are held in the ordinary course of business and 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.

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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: February 11, 2010

ARTISAN INVESTMENT CORPORATION, for itself and as the general partner of ARTISAN PARTNERS HOLDINGS LP

By: Janet D. Olsen*

ARTISAN INVESTMENTS GP LLC, for itself and as the general partner of ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Janet D. Olsen*

ZFIC, INC.

By: Janet D. Olsen*

ANDREW A. ZIEGLER

Andrew A. Ziegler*

CARLENE M. ZIEGLER

Carlene M. Ziegler*

ARTISAN FUNDS, INC.

By: Janet D. Olsen*

*By: /s/ Janet D. Olsen

Janet D. Olsen

Vice President of Artisan Investment Corporation Vice President of Artisan Investments GP LLC

Attorney-in-Fact for ZFIC, Inc.

Attorney-in-Fact for Andrew A.

Ziegler

Attorney-in-Fact for Carlene M. Ziegler

General Counsel and Secretary of Artisan Funds, Inc.

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Exhibit Index

Exhibit 1 Joint Filing Agreement dated February 11, 2010 by and among Artisan Partners Holdings LP, Artisan Investment Corporation,

Artisan Partners Limited Partnership, Artisan Investments GP LLC, ZFIC, Inc., Andrew A. Ziegler, Carlene M. Ziegler and Artisan Funds, Inc.

Exhibit 2 Power of Attorney of ZFIC, Inc., dated March 19, 2007

Exhibit 3 Power of Attorney of Andrew A. Ziegler dated March 19, 2007

Exhibit 4 Power of Attorney of Carlene M. Ziegler dated March 19, 2007

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EXHIBIT 1

JOINT FILING AGREEMENT

The undersigned hereby agree to the joint filing of the Schedule 13G to which this Agreement is attached.

Dated: February 11, 2010

ARTISAN INVESTMENT CORPORATION, for itself and as the general partner of ARTISAN PARTNERS HOLDINGS LP

By: Janet D. Olsen*

ARTISAN INVESTMENTS GP LLC, for itself and as the general partner of ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Janet D. Olsen*

ZFIC, INC.

By: Janet D. Olsen*

ANDREW A. ZIEGLER

Andrew A. Ziegler*

CARLENE M. ZIEGLER

Carlene M. Ziegler*

ARTISAN FUNDS, INC.

By: Janet D. Olsen*

*By: /s/ Janet D. Olsen

Janet D. Olsen Vice President of Artisan Investment Corporation

Vice President of Artisan
Investments GP LLC
Attorney-in-Fact for ZFIC, Inc.
Attorney-in-Fact for Andrew A.
Ziegler
Attorney-in-Fact for Carlene M.
Ziegler
General Counsel and Secretary of Artisan Funds, Inc.

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EXHIBIT 2

POWER OF ATTORNEY

The undersigned, ZFIC, Inc., hereby appoints Lawrence A. Totsky, Janet D. Olsen, and Sarah A. Johnson, and each of them individually, its true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on its behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder, including but not limited to reports on Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact and agents.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 19th day of March, 2007.

ZFIC, INC.

By: /s/ Andrew A. Ziegler
------Andrew A. Ziegler
Vice President

STATE OF WISCONSIN)

OUNTY OF MILWAUKEE)

I, Timothy K. Weston, a Notary Public in and for the County of Milwaukee, State of Wisconsin, DO HEREBY CERTIFY that Andrew A. Ziegler, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 19th day of March, 2007.

/s/ Timothy K. Weston

Notary Public

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EXHIBIT 3

POWER OF ATTORNEY

The undersigned, Andrew A. Ziegler, hereby appoints Lawrence A. Totsky, Janet D. Olsen, and Sarah A. Johnson, and each of them individually, his true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on his behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder, including but not limited to reports on Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact and agents.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 19th day of March, 2007.

STATE OF WISCONSIN)

OUNTY OF MILWAUKEE)

I, Timothy K. Weston, a Notary Public in and for the County of Milwaukee, State of Wisconsin, DO HEREBY CERTIFY that Andrew A. Ziegler, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 19th day of March, 2007.

/s/ Timothy K. Weston
-----Notary Public

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EXHIBIT 4

POWER OF ATTORNEY

The undersigned, Carlene M. Ziegler, hereby appoints Lawrence A. Totsky,

Janet D. Olsen, and Sarah A. Johnson, and each of them individually, her true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on her behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder, including but not limited to reports on Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact and agents.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 19th day of March, 2007.

/s/ Carlene M. Ziegler
------Carlene M. Ziegler

STATE OF WISCONSIN)

OUNTY OF MILWAUKEE)

I, Timothy K. Weston, a Notary Public in and for the County of Milwaukee, State of Wisconsin, DO HEREBY CERTIFY that Carlene M. Ziegler, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that she signed and delivered the said instrument as her own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 19th day of March, 2007.

/s/ Timothy K. Weston
----Notary Public

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