Ziegler John A.

Form 3

April 06, 201	2								
FORM	13 ^{UN}	ITED STA		URITIES AND EXCHANGE COMMI		MISSI	SION OMB APPROVAL		
			Washington, I	D.C. 20549			OMB Number:	3235-0104	
	Fi	led pursuan	SECURI t to Section 16(a) of the	NEFICIAL OWNERSHIP OF TIES Securities Exchange Act of 1934, ing Company Act of 1935 or Sectio			Expires: Estimated ave burden hours tesponse	0	
			0(h) of the Investment C						
(Print or Type R	Responses)								
Person * Statemen			 Date of Event Requiring Statement (Month/Day/Year) 	^g 3. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]					
(Last)	(First)	(Middle)	04/01/2012	4. Relationship of Reporting Person(s) to Issuer			5. If Amendment, Date Original Filed(Month/Day/Year)		
ONE CITYF DRIVE, S)			all applicable)		neu(irioinii, buj, roui)		
ST. LOUIS,	(Street) MO 6	53141				r F ow) _: P	. Individual or Joint/G iling(Check Applicable X_ Form filed by One Ro erson Form filed by More th eporting Person	Line) eporting	
(City)	(State)	(Zip)	Table I - N	Non-Derivat	tive Securiti	rities Beneficially Owned			
1.Title of Secur (Instr. 4)	rity		2. Amount o Beneficially (Instr. 4)		3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Natur Ownersl (Instr. 5)	-	d.	
Common Sto	ock		850		D	Â			
Reminder: Repo owned directly	-		ach class of securities benefic	ially S	SEC 1473 (7-02	2)			
	infor requ	mation cont	pond to the collection of ained in this form are not ond unless the form displ MB control number.	t					

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date	3. Title and Amount of Securities Underlying	4. Conversion	5. Ownership	6. Nature of Indirect Beneficial Ownership
	(Month/Day/Year)	Derivative Security (Instr. 4)	or Exercise Price of	Form of Derivative	(Instr. 5)
		Title	Derivative Security	Security: Direct (D)	

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	Date Exercisable	Expiration Date		Amount or Number of Shares		or Indirect (I) (Instr. 5)	
Phantom Stock	(1)	(1)	Common Stock	399	\$ <u>(2)</u>	D	Â
Restricted Stock Units	(3)	(4)	Common Stock	3,400	\$ 13.93	D	Â
Employee Stock Options	(5)	02/23/2022	Common Stock	8,550	\$ 13.93	D	Â
Employee Stock Options	(6)	12/02/2012	Common Stock	3,024	\$ 10.26	D	Â
Employee Stock Options	(7)	02/22/2017	Common Stock	5,350	\$ 32.99	D	Â
Employee Stock Options	(8)	04/26/2017	Common Stock	4,100	\$ 37.72	D	Â
Employee Stock Options	(9)	02/21/2018	Common Stock	5,350	\$ 52.69	D	Â
Employee Stock Options	(10)	02/19/2019	Common Stock	8,700	\$ 14.05	D	Â
Employee Stock Options	(11)	02/18/2020	Common Stock	6,550	\$ 22.65	D	Â
Employee Stock Options	(12)	02/24/2021	Common Stock	5,400	\$ 32.49	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
Ziegler John A. ONE CITYPLACE DRIVE SUITE 300 ST. LOUIS, MO 63141	Â	Â	Vice President - HR	Â		
Signatures						
/s/ Jon S. Ploetz, Attorney-in-Fact	04	4/06/2012				
**Signature of Reporting Person		Date				

Explanation of Responses:

If the form is filed by more than one reporting person, see Instruction 5(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).

Shares of phantom stock are payable in cash on the date or dates elected by the Executive Officer, subject to the terms of the Arch Coal, (1) Inc. Deferred Compensation Plan (the "Plan). The Executive Officer may transfer any and all of the phantom stock account into an alternative investment account at any time.

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Each share of phantom stock represents a right to receive the value in cash of one share of Arch Coal, Inc. common stock. The shares of phantom stock are held by the Executive Officer through the Plan. The shares of phantom stock acquired by the Executive Officer

- (2) phantom stock are need by the Executive Officer through the Plan. The shares of phantom stock acquired by the Executive Officer represent past compensation that the Executive Officer elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock.
- (3) The reporting person received 3,400 restricted stock units on February 23, 2012. The restricted stock units vest on February 23, 2015.
- (4) The restricted stock units do not expire.
- (5) The reporting person received 8,550 stock options on February 23, 2012. The options vest ratably over 3 years as follows: 2,850 shares will vest on February 23, 2013; 2,850 shares will vest on February 23, 2014; and 2,850 shares will vest on February 23, 2015.
- The reporting person received 12,100 stock options on December 2, 2002. The options vested ratably over 4 years as follows: 3,025 shares vested on December 2, 2003; 3,025 shares vested on December 2, 2004; 3,025 shares vested on December 2, 2005; and 3,025 shares vested on December 2, 2006.
- The reporting person received 5,350 stock options on February 22, 2007; The stock options vested ratably over a period of 3 years as
 (7) follows: 1,784 shares vested on February 22, 2008; 1,783 shares vested on February 22, 2009; and 1,783 shares vested on February 22, 2010.
- (8) The reporting person received 4,100 stock options on April 26, 2007. The stock options vested ratably over 3 years as follows: 1,367 shares vested on April 26, 2008; 1,367 shares vested on April 26, 2009; and 1,366 shares vested on April 26, 2010.
- (9) The reporting person received 5,350 stock options on February 21, 2008. The stock options vested ratably over 3 years as follows: 1,784 shares vested on February 21, 2009; 1,783 shares vested on February 21,2010; and 1,783 shares vested on February 21, 2011.
- The reporting person received 8,700 stock options on February 19, 2009. The options vest ratably over 4 years as follows: 2,175 shares
 (10) vested on February 19, 2010; 2,175 shares vested on February 19, 2011; 2,175 shares vested on February 19, 2012; and 2,175 shares will vest on February 19, 2013.

The reporting person received 6,550 stock options on February 18, 2010. The options vest ratably over 4 years as follows: 1,638 shares
(11) vested on February 18, 2011; 1,637 shares vested on February 18, 2012; 1,638 shares will vest on February 18, 2013; and 1,637 shares will vest on February 18, 2014.

(12) The reporting person received 5,400 stock options on February 24, 2011. The stock options vest ratably over 3 years as follows: 1,800 shares vested on February 24, 2012; 1,800 shares will vest on February 24, 2013; and 1,800 shares will vest on February 24, 2014.

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.