

Ziegler John A.  
Form 3  
April 06, 2012

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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 *		2. Date of Event Requiring Statement	3. Issuer Name and Ticker or Trading Symbol	
Ziegler John A.		(Month/Day/Year)	ARCH COAL INC [ACI]	
(Last)	(First)	(Middle)	04/01/2012	
ONE CITYPLACE DRIVE, SUITE 300			4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Original Filed(Month/Day/Year)
(Street)			(Check all applicable)	
ST. LOUIS, MO 63141			<input type="checkbox"/> Director <input type="checkbox"/> 10% Owner	6. Individual or Joint/Group Filing(Check Applicable Line)
(City)	(State)	(Zip)	<input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Form filed by One Reporting Person
			(give title below) (specify below)	<input type="checkbox"/> Form filed by More than One Reporting Person
			Vice President - HR	

**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	850	D	

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

SEC 1473 (7-02)

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**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 (Month/Day/Year)	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
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	Date Exercisable	Expiration Date		Amount or Number of Shares		or Indirect (I) (Instr. 5)	
Phantom Stock	Â (1)	Â (1)	Common Stock	399	\$ (2)	D	Â
Restricted Stock Units	Â (3)	Â (4)	Common Stock	3,400	\$ 13.93	D	Â
Employee Stock Options	Â (5)	02/23/2022	Common Stock	8,550	\$ 13.93	D	Â
Employee Stock Options	Â (6)	12/02/2012	Common Stock	3,024	\$ 10.26	D	Â
Employee Stock Options	Â (7)	02/22/2017	Common Stock	5,350	\$ 32.99	D	Â
Employee Stock Options	Â (8)	04/26/2017	Common Stock	4,100	\$ 37.72	D	Â
Employee Stock Options	Â (9)	02/21/2018	Common Stock	5,350	\$ 52.69	D	Â
Employee Stock Options	Â (10)	02/19/2019	Common Stock	8,700	\$ 14.05	D	Â
Employee Stock Options	Â (11)	02/18/2020	Common Stock	6,550	\$ 22.65	D	Â
Employee Stock Options	Â (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	Â Vice President - HR	Â

## Signatures

/s/ Jon S. Ploetz,  
Attorney-in-Fact

04/06/2012

\_\_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, 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 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.
- (2) The reporting person received 3,400 restricted stock units on February 23, 2012. The restricted stock units vest on February 23, 2015.
- (3) The restricted stock units do not expire.
- (4) 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.
- (5) 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.
- (6) The reporting person received 5,350 stock options on February 22, 2007; The stock options vested ratably over a period of 3 years as 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.
- (7) 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.
- (8) 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.
- (9) The reporting person received 8,700 stock options on February 19, 2009. The options vest ratably over 4 years as follows: 2,175 shares 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.
- (10) The reporting person received 6,550 stock options on February 18, 2010. The options vest ratably over 4 years as follows: 1,638 shares 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.
- (11) 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.
- (12)

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.

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