FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

washington, b.c. 20049

OMB APPROVAL									
OMB Number:	3235-028								
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obligations may continue. See
Instruction 1(b)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

					or S	ection 3	O(h) of th	nè Ínv	vestment	Com	pany Ac	t of 19	940							
Name and Address of Reporting Person* <u>Godley Patricia Fry</u>				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]										Relations neck all a		o of Reporting Person(s) to Issuer plicable)				
Gouley	PaulCia .	<u>F1y</u>								-					X Dir	ecto	r		10% Ov	vner
Last) (First) (Middle) ONE CITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 03/15/2012											Officer (give title below)			Other (specify below)		
		DRIVE																		
SUITE 300				4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable							
Street)														Lin	,	ırm fil	led by One	Ren	orting Perso	ın
ST. LOU	TIS M	0	53141												Fo		led by Mor		n One Repo	
(City)	(SI	tate)	(Zip)																	
		Tab	le I - Nor	า-Deriva	ative	Secu	ities A	cqu	uired, I	Disp	osed	of, o	r Ber	neficia	lly Ow	ned				
Title of Security (Instr. 3) 2. Transa Date (Month/D						Exe r) if ar	2A. Deemed Execution Date, if any (Month/Day/Year)		e, Transaction D Code (Instr. 5		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)				d Seci Ben Owr	5. Amount of Securities Beneficially Owned Following		Form (D) o	n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership
								Code	v	Amount	t	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		ion(s)			(Instr. 4)	
		Т	able II -	Derivati (e.g., pu											/ Owne	ed				
Title of Derivative Security Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, if any		4. Transaction Code (Instr. 8)		of E		6. Date Exercisable and Expiration Date (Month/Day/Year)			Amo Secu Unde Deriv	tle and ount of urities erlying vative S r. 3 and		8. Price Derivati Security (Instr. 5)	ve (9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y Ov Fo Dii or (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
														Amount						

Explanation of Responses:

1. 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 director through the Arch Coal, Inc. Deferred Compensation Plan for Non-Employee Directors (the "Plan"). The shares of phantom stock acquired by the director represent dividends attributable to amounts that the director elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock.

Date Exercisable

(2)

Expiration Date

(2)

Title

Common

Stock

2. Shares of phantom stock are payable in cash following termination of the director's service as a director of Arch Coal, Inc. The director may transfer amounts held in the phantom stock account into an alternative investment account at any time.

Remarks:

Phantom

Stock

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

of Shares

402

\$12.34

Fact

** Signature of Reporting Person

Date

03/19/2012

45,485

D

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

 * If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

03/15/2012

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Code

(A) (D)

402

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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