FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
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Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(h)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  Godley Patricia Fry					2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]									Relationshipheck all app	,	, (,	o Issuer 6 Owner
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300			3. Date of Earliest Transaction (Month/Day/Year) 09/13/2013									below	,	bel	er (specify ow)		
(Street) ST. LOUIS MO 63141				4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Lir	ndividual or Joint/Group Filing (Check Applicable e)  X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City) (State) (Zip)  Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3)  2. Transac Date (Month/Da				2A. Deemed Execution Date if any (Month/Day/Yea			3. Transac Code (In 8)	tion str.	4. Secur Dispose 5)	rities Acquired Of (D) (In	red (A) or str. 3, 4 an	5. Amo Securit Benefic Owned Report Transa (Instr. 3	Beneficially (D Owned Following (I) Reported Transaction(s) (Instr. 3 and 4)		of Indirect		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date if any (Month/Day/Yea	Co	Transaction Code (Inst				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ect (Instr. 4)
				Co	ode V	, (	(A)	(D)	Date Exercisable	Exp	oiration e	Title	Amount or Number of Shares				
Phantom Stock	(1)	09/13/2013		I	A		556		(2)		(2)	Common Stock	556	\$4.69	87,469	D	

## **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.
- 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:

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

<u>Fact</u>

\*\* Signature of Reporting Person

Date

09/17/2013

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

- $^{\star}$  If the form is filed by more than one reporting person, see Instruction 4 (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).

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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