FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

1. Name and Address of Reporting Person* Godley Patricia Fry				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]											onship all appl Direct	icable)	g Per	rson(s) to Iss			
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 09/15/2011												Officer (give title below)		Other (sbelow)	specify	
SUITE 300					4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)							
(Street) ST. LOU	IS M	0	63141													X		filed by Mor	•	oorting Perso In One Repo	
(City)	(S	tate) ((Zip)																		
		Tab	le I - Non-	-Deriva	tive	Sec	uritie	es Ac	qu	ired, I	Disp	osed	of, o	r Be	neficia	lly C	wne	d			
Date				2. Transac Date (Month/Da	Execution Da			n Date	Code (Dispose	rities Acquired (A) ed Of (D) (Instr. 3,			4 and Secur Bene Owne		ities Ficially (d Following (Form: Direct	7. Nature of Indirect Beneficial Ownership
									Ī	Code V Amour		Amount	t (A) or P		Price	1	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
	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 D if any (Month/Day/	ate, Ti	ransaction ode (Instr.		of I		Exp	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)			Deriv Secu	Price of erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				С	ode	v	(A)	(D)	Dat Exe	e ercisable		piration ite	Title		Amount or Number of Shares						
Phantom Stock	(1)	09/15/2011			A		210			(2)		(2)	Comi		210	\$2	0.34	39,084		D	

- 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-**Fact**

09/19/2011

** Signature of Reporting Person

Date

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).
- ** 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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.