FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
OMB Number:	3235-0287						
1							

Check this box if no longer subject to 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

Estimated average burden hours per response: 0.5

1. Name and Address of Reporting Person* <u>Godley Patricia Fry</u>					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]						Relationship heck all app X Direct	icable)	Person(s) to Is		
ONE CITYPLACE DRIVE SUITE 300				1	3. Date of Earliest Transaction (Month/Day/Year) 12/15/2011						below	,	Other (below)		
(Street) ST. LOU (City)			63141 (Zip)	4	4. If Amendment, Date of Original I				iled (Month/I	Oay/Year)	6. Lir	ne) X Form	or Joint/Group Filing (Check Applicable In filed by One Reporting Person In filed by More than One Reporting Ison		
(- 3)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned														
1. Title of Security (Instr. 3) 2. Transact Date (Month/Date)				ate	Execution Date		Code (In	ion Dispos str. 5)	rities Acqui ed Of (D) (In t (A) (str. 3, 4 an	Benefic	ies F cially (Following (ed ction(s)	5. Ownership Form: Direct D) or Indirect I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (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		3A. Deemed Execution Date, r) if any (Month/Day/Year)	Cod	Transaction Code (Instr. 8) Securi Acquir (A) or Dispos of (D)		erivative (Month/Day/\) curities cquired () or sposed (D) (D) (Str. 3, 4		ate	7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Cod	le V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Phantom Stock	(1)	12/15/2011		A		327		(2)	(2)	Common Stock	327	\$14.08	42,240	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/ Robert G. Jones, Attorney-

in-Fact

** Signature of Reporting Person

Date

12/16/2011

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.