## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.0	C. 20549
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Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

### STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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

Name and Address of Reporting Person*  Codley Potricia Fra					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ ACI ]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
Godley Patricia Fry									-			X Dire	ctor	10% (	Owner	
(Last) (Filst) (Milate)					3. Date of Earliest Transaction (Month/Day/Year) 12/15/2006							Offic belo	er (give title w)	Other below	(specify )	
SUITE 300					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)				
(Street)											٦	,	n filed by One	Reporting Pers	son	
ST. LOU	IS M	0 (	53141									Fori Pers		e than One Rep	orting	
(City)	(St	ate) (	Zip)													
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3)  2. Transac Date (Month/Da				ate	Execution Da			Code (Instr. 5)			ired (A) o nstr. 3, 4 a	5. Amount of 4 and Securities Beneficially Owned Followi Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	/ Amou	nt (A)	or Pric	Trans	action(s) 3 and 4)		(11150.4)	
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 Date, if any (Month/Day/Year)	Cod	saction e (Instr.			6. Date Exercisable and Expiration Date (Month/Day/Year)		Amount of Securitie Underlyin Derivativ	7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
				Cod	e V	(A)	(D)	Date Exercisable	Expiratio Date	ı Title	Amoun or Numbe of Shares	1				
Phantom Stock	(1)	12/15/2006		A		19		(2)	(2)	Common Stock	19	\$33.97	10,902	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 certain portions of the phantom stock account into an alternative investment account at any time.

# Remarks:

/s/ Gregory A. Billhartz, 12/18/2006 Attorney-in-Fact

\*\* 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.