## FORM 4

obligations may continue. See

Instruction 1(b).

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

Check this box if no longer subject to Section 16. Form 4 or Form 5	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

1. Name and Address of Reporting Person*  Godley Patricia Fry				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ ACI ]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
								-				X Direct	or	10% O	wner	
(Last)	Last) (First) (Middle)  DNE CITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 06/13/2008							Office below	r (give title )	Other ( below)	specify	
SUITE 3	00			4.	4. If Amendment, Date of Original Filed (Month/Day					th/Day/`	/Year)	6. Lir		Joint/Group F	iling (Check A	oplicable
(Street) ST. LOU	TIS M	(O)	63141										X Form	•	Reporting Perso	
													Perso		man One Repo	Juling
(City)	(S	tate)	(Zip)													
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned															
Date			Transaction ate lonth/Day/Y	Execution Date			Code (Instr. 5)				Benefic Owned	ities Folicially (D	Ownership rm: Direct ) or Indirect (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
				Code V Amount				(A) oi (D)	Price	Reporte Transac (Instr. 3	tion(s)		(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, if any (Month/Day/Year)	Code	Transaction Code (Instr.		rative rities ired rosed )	6. Date Exercisable and Expiration Date (Month/Day/Year)		Am Se Un De	7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	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)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	on Titl		Amount or Number of Shares				
Phantom Stock	(1)	06/13/2008		A		20		(2)	(2)		ommon Stock	20	\$71.5	15,587	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/ Gregory A. Billhartz, 06/17/2008 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.