Instruction 1(b).

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

l	OMB APPROVAL								
l	OMB Number:	3235-0287							
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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* 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)						
Gottley	Pallicia	<u>F1y</u>								-				X	Directo	or		10% C	wner
(Last) (First) (Middle) ONE CITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 03/31/2009										Officer below)	(give title		Other (below)	specify	
SUITE 3	800				4. 11	f Amer	ndment,	Date	of Origina	l Filed	d (Month/D	ay/Year)		i. Indiv	vidual or	Joint/Group	Filin	g (Check A	pplicable
(Street)														X	Form 1	iled by One	Rep	orting Pers	on
ST. LOU	JIS M	[0	63141												Form to Person	iled by Mor	e thai	n One Rep	orting
(City)	(S	tate)	(Zip)																
		Tab	le I - Non	-Deriva	ative	Sec	uritie	s Ac	quired	Dis	posed o	of, or Be	enefici	ally	Owned	i			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution Dat			Date	Code (Instr. 5)					4 and Securitie Benefici		es Formially (D) (Following (I) (I		vnership n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership
								Code	v	V Amount (A)		Pric	е	Transac (Instr. 3	tion(s)	(s) 4)		(Instr. 4)	
		Т	able II - [osed of converti				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution I if any (Month/Day	Date, T	4. Transactic Code (Inst				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title ar Amount of Securitie Underlyir Derivativ (Instr. 3 a	of s ng e Securit	De Se (Ir	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (or Indir (I) (Inst	Ownership	Beneficial Ownership ot (Instr. 4)
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amour or Number of Shares	er					
Phantom Stock	(1)	03/31/2009	04/09/20	009	A		3,085		(2)	T	(2)	Common Stock	3,085	5	\$13.37	22,088		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") and represent past compensation that the director elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock and/or dividends attributable to such deferred amounts.
- 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, 04/10/2009 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.