FORM 5

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

ANNUAL ST	ATEMENT OI	CHANGES IN	I BENEFICIAL
		EDCLID	

	OMB APPROVAL							
	OMB Number: 3235-0362							
l	Estimated average burden							
l	hours per response:	1.0						

Instruction 1(b)

U Form 3	Holdings Rep	ortea.														
Form 4	Transactions	Reported.	Fil	ed pursuant t or Sectio	o Sectio n 30(h)	on 16(of the	(a) of the e Investr	e Secu ment (urities Excha Company Ac	inge Act o ct of 1940	f 1934					
Name and Address of Reporting Person* Godley Patricia Fry					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]						5. Relationship of Report (Check all applicable) X Director			ing Person(s) to Issuer 10% Owner		
(Last) ONE CIT	ΓΥΡLACE	,	(Middle)	12/31/20	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2004 4. If Amendment, Date of Original Filed (Month/Day/Year)							Officer (give title below) Other (specify below) 6. Individual or Joint/Group Filing (Check Applicab				
(Street) ST. LOU			53141	- 4. II AIIIEI	iument,	, Date	or Ongr	illai i i	ieu (Montili).	Jayr reary	Lir	ne) X Form	filed by O	ne Rep	porting Pel an One Re	son
(City)	(S	tate)	(Zip)													
		Tab	le I - Non-Deri	vative Sec	uritie	s A	cquire	d, D	isposed	of, or B	eneficia	lly Owne	d			
Date [[(Month/Day/Year) i		Execution D			4. Securities Acquired (A) or Dispos of (D) (Instr. 3, 4 and 5)		Disposed	5. Amour Securitie Beneficia Owned a	s Owne		rship I Direct E	. Nature of ndirect Beneficial Ownership				
					(Worth/Day)		Amou	unt	(A) or (D)			Fiscal Indirection (Instr. 4		ct (I) (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 Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Nun of Deriva Securi Acquii (A) or Dispos of (D) (Instr. and 5)	itive ities red sed	Expiration Date (Month/Day/Year) Securitie Underlyin Derivativ (Instr. 3 a		of s ng e Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownersh Form: Direct (D) or Indirec (I) (Instr.	Beneficial Ownership t (Instr. 4)		
					(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares					
Phantom Stock	(1)	12/31/2004 ⁽²⁾		A	1,411		(3)		(3)	Common	1,411	\$0.00 ⁽³⁾	1,41	.1	I	By Plan

Explanation of Responses:

- 2. Acquired on various dates in 2004 pursuant to Arch Coal, Inc.'s Director Compensation Plan.
- 3. Payable in cash upon termination of the Reporting Person's service on Arch Coal's Board.

Remarks:

/s/ Janet L. Horgan, Attorney-

02/14/2005

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.