## FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

wasiiiigion,	D.C.	2054

OMB APPROVAL								
OMB Number:	3235-028							
Estimated average I	hurden							

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

hours per response: 0.5

1. Name and Address of Reporting Person*  BURKE FRANK M						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ ACI ]  5. Relationship of Reporting Person(s) to Issuer (Check all applicable)													
<u>BURN</u>	<u>E FRAINI</u>	X IVI												:	X Direct	or		10% Ov	wner
(Last) (First) (Middle) ONE CITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 06/30/2006									Office below	r (give title )		Other (s below)	specify		
(Street)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
ST. LOU	TIS M	0	63141										_	Form filed by One Reporting Person Form filed by More than One Reporting					
(City)	(Si	tate)	(Zip)			Person													
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Transa Date (Month/D					Execution Dat			Code (Instr. 5)						Form: (D) or	m: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership			
						Code	v	Amoun	(A) or (D)		Price	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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/	Date,	Code (Inst		n of		Expiration	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		urity	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Ownership Form: Direct (D)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		expiration Pate	Title	or	ount nber ires					
Phantom Stock	(1)	06/30/2006	07/06/20	006	A		236		(2)		(2)	Common Stock	2	36	\$42.37	34,227 <sup>(3)</sup>		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 certain portions of the phantom stock account into an alternative investment account at any time.
- 3. The director's phantom stock account has been adjusted for the two-for-one stock dividend in the form of a 100% stock dividend, payable by Arch Coal, Inc. on May 15, 2006 to all holders of record of common stock on May 5, 2006.

### Remarks:

/s/ Gregory A. Billhartz, Attorney-in-Fact

07/07/2006

\*\* 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.