ARCH COAL INC

Form 5

February 14, 2005

FORM 5

OMB APPROVAL

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

3235-0362 Number: January 31,

no longer subject to Section 16. Form 4 or Form 5 obligations

Check this box if

Expires: 2005 Estimated average

1.0

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

burden hours per response...

may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

OMB

Reported 30(h) of the Investment Company Act of 1940

Form 4

(Middle)

Transactions Reported

1. Name and Address of Reporting Person * BURKE FRANK M

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol

ARCH COAL INC [ACI]

(Check all applicable)

(Last) (First) 3. Statement for Issuer's Fiscal Year Ended

X Director 10% Owner Officer (give title Other (specify

(Month/Day/Year) 12/31/2004

below) below)

ONE CITYPLACE DRIVE

(Street) 4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Reporting

(check applicable line)

ST. LOUIS, MOÂ 63141

X Form Filed by One Reporting Person Form Filed by More than One Reporting

(City)

(State)

(Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed

(Month/Day/Year) Execution Date, if

(Month/Day/Year)

3. Transaction Code

(Instr. 8)

4. Securities Acquired (A) or Disposed of (D)

(Instr. 3, 4 and 5)

Amount (D) Price

5. Amount of Securities Beneficially Owned at end 6. Ownership 7. Nature of Form: Direct (D) or

Indirect (I)

(Instr. 4)

Indirect Beneficial Ownership

(Instr. 4)

(A) or

of Issuer's Fiscal Year

(Instr. 3 and 4)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Derivative

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 control number.

or Disposed

SEC 2270 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5. Number of	6. Date Exercisable and	7. Title and Amount of	8.
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	Derivative	Expiration Date	Underlying Securities	D
Security	or Exercise		any	Code	Securities	(Month/Day/Year)	(Instr. 3 and 4)	Se
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Acquired (A)			(I

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Security of (D) (Instr. 3, 4,

and 5)

(A) (D) Date Expiration Title Exercisable Date

expiration Title Amount or

Number of Shares

Phantom \hat{A} 12/31/2004(2) \hat{A} A 1,294 \hat{A} \hat{A} (3) \hat{A} Common Stock 1,294

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

BURKE FRANK M ONE CITYPLACE DRIVE ST. LOUIS, MOÂ 63141

 $\hat{A} X \qquad \hat{A} \qquad \hat{A} \qquad \hat{A}$

Signatures

/s/ Janet L. Horgan, Attorney-in-Fact

02/14/2005

**Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
- **(1)** 1-for-1
- (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.

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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