Instruction 1(b).

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

Washington,	D.C.	20549
vvasiliigtoii,	D.C.	20070

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL **OWNERSHIP**

	OMB APPROVAL						
	OMB Number:	3235-0362					
ı	Estimated average b	urden					

Form 3	B Holdings Rep	orted.				ΟV	VINEF	(SF	1111				hou	ırs per re	esponse:	1.0	
Form 4	1 Transactions	Reported.	Fil	ed pursuant to or Section					urities Excha Company Ac		f 1934						
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) X Director 10% Owner						
(Last)	(Fi	,	Middle)		3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2003						ear)	Officer (give title Other below) below				r (specify w)	
(Street) ST. LOU	JIS M	0 (53141	4. If Amer							ne) X Form Form	,					
(City)	(S	tate) (Zip)														
		Tab	le I - Non-Deri	vative Sec	uritie	s A	cquire	d, D	isposed	of, or E	Benefici	ally Owne	d				
Date (Month/Day/Year)		Execution D	if any Cod		Transaction Of (D) (Instr. 3, 4 a Code (Instr.		uired (A) or Disposed and 5)		5. Amour Securitie Beneficia	s ally	Owne ly Form:		7. Nature of indirect Beneficial Ownership				
				(Month/Day)	Ionth/Day/Year)					(A) or (D)	Price	Issuer's	Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)			(Instr. 4)	
		Т	able II - Deriva (e.g., p	tive Secu outs, calls													
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)	of Deriva Secur Acqui (A) or Dispo of (D) (Instr.	of Derivative Securities Acquired (A) or Disposed		Date Exercisable and xpiration Date Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		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 Indire (I) (Instr.	Beneficial Ownership ct (Instr. 4)	
					(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares	1					
Phantom Stock	(1)	12/31/2003 ⁽²⁾		A	1,866		(3)		(3)	Common	1,866	\$0 ⁽³⁾	14,7	51	I	By Plan	

Explanation of Responses:

- 1. 1-for-1
- 2. Acquired on various dates in 2003 pursuant to periodic investments in 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, Attorneyin-Fact

02/16/2004

** 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.