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

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL
OWNERSHIP

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

U Forms	Holdings Rep	ortea.											<u></u>			
Form 4	Transactions	Reported.	Fil	ed pursuant t or Sectio					ırities Excha Company Ac		f 1934					
1. Name and Address of Reporting Person*  POTTER ROBERT G				2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]							Relationship of Reporting Per (Check all applicable)     X Director			. ,	lssuer Owner	
(Last)	(Fi		Middle)		3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2003						ear)	Office below	ficer (give title low)		Other (specify below)	
(Street) ST. LOU (City)			53141 Zip)	4. If Amer	ndment,	, Date	e of Origin	nal Fil	led (Month/E	oay/Year)			i filed by C	ne Rep	ng (Check porting Per an One Re	son
		Tab	le I - Non-Deri	vative Sec	uritie	s A	cquired	d, D	isposed	of, or B	eneficia	ally Owne	ed			
Date   I (Month/Day/Year)			Execution Date, If any		3. Transaction Code (Instr.		4. Securities Acquired (A) or Dispos Of (D) (Instr. 3, 4 and 5)			Disposed	5. Amou Securitie Benefici	es Own ially Forn		rship I Direct E	. Nature of ndirect Seneficial Ownership	
			(Worth // Day)	rear) 8)		4	Amou		(A) or (D) Price		Issuer's	Issuer's Fiscal I			nstr. 4)	
		T	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	on Date (Month/Day/Year)	Execution Date, if any	Transaction Code (Instr. 8) Sec Acq (A) O Disp of (I (Instr. Instrumental Instrumen		Expirative erivative ecurities cquired () or isposed		e Exercisable and tion Date n/Day/Year)		7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)			10. Ownersh Form: Direct (D) or Indirec (I) (Instr.	Beneficial Ownership t (Instr. 4)
					(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares					
Phantom	(1)	12/31/2003 <sup>(2)</sup>		A	4,537		(3)		(3)	Common	5,537	\$0 <sup>(3)</sup>	11,8	50	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, Attorney-

02/16/2004

in-Fact

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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.