## 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							

Instruction 1(b).

Form 3	B Holdings Rep	orted.														
Form 4	Transactions	Reported.	Fil	ed pursuant t or Sectio					urities Excha Company Ac		f 1934					
1. Name and Address of Reporting Person* BOYD JAMES R					2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]							5. Relationship of Reporting Po (Check all applicable) X Director			( )	Issuer Owner
(Last) (First) (Middle) ONECITYPLACE DRIVE					3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2003							Officer (give title Other (specify below) below)				
(Street) ST. LOUIS MO 63141  (City) (State) (Zip)			4. If Amer	4. If Amendment, Date of Original Filed (Month/Day/Year)							Individual or Joint/Group Filing (Check Applicable ne)  X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	le I - Non-Deri	vative Sec	uritie	s A	cquire	d, D	isposed	of, or B	enefici	ally Owne	d			
Date (Month/Day/Year) i			2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.		4. Securities Acquired (A) or Dispos Of (D) (Instr. 3, 4 and 5)			Disposed	Securitie Benefici	s Own		rship Direct	7. Nature of Indirect Beneficial Ownership	
			(Month/Day)	reary	0)	"		unt	(A) or (D)	Price	Issuer's	Issuer's Fiscal Year (Instr. 3 and			(Instr. 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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Numb derivativ Securitie Benefici Owned Followin Reporte Transaci (Instr. 4)	re es ally ng d tion(s)	10. Ownersh Form: Direct (D or Indire (I) (Instr.	Beneficial Ownership t (Instr. 4)	
					(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amoun or Numbe of Shares	1				
Phantom Stock	(1)	12/31/2003 <sup>(2)</sup>		A	8,728		(3)		(3)	Common	8,728	\$0 <sup>(3)</sup>	19,8	44	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.