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

Form 3	Holdings Repo	orted.											Lilot	ло рег п	зропас.		1.0
Form 4	Transactions I	Reported.	Fil	ed pursuant t or Sectio					urities Excha Company Ac		of 1934						
1. Name and Address of Reporting Person* <u>LOCKHART THOMAS A</u>					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) 12/31/2004							Office below		(give title Other (s below)			iy
(Street) ST. LOUIS MO 63141 (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)							Individual or Joint/Group Filing (Check Applicable Line) 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	ed, D	isposed	of, or E	Beneficia	ally Owne	d				\neg
Date (Month/Day/Year)			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)		r Disposed	5. Amour Securitie Beneficia	es Owne ally Form		rship Direct	7. Nature Indirect Beneficia Ownersh	irect neficial		
				(Month/Day/Year)		0)		Amou	unt	(A) or (D)	Price	Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)		Indirect (I) (Instr. 4)		(Instr. 4)	
		Т	able II - Deriva (e.g., p	itive Secu outs, calls													
1. Title of Derivative Security (Instr. 3) 2. Conversion or Exercise Price of Derivative Security		version kercise (Month/Day/Year) if (I	Execution Date, if any	Transaction Of Code (Instr. B) Secul (A) on Dispo		ivative urities puired or posed D) tr. 3, 4		e Exercisable and ation Date h/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. Ownersl Form: Direct (E or Indire (I) (Instr.	nip of Ir Ben Owr ct (Ins	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares						
Phantom Stock	(1)	12/31/2004 ⁽²⁾		A	1,594		(3))	(3)	Commo	1,594	\$0.00 ⁽³⁾	3,93	39	I	By I	Plan

Explanation of Responses:

- 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.

Remarks:

/s/ Janet L. Horgan, Attorney-

02/14/2005

in-Fact

** 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.