FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

Washington, B.O. 20040

ONB APPROVAL										
OMB Number:	3235-0287									
Estimated average	burden									

0.5

hours per response:

Check this box if no longer subject to						
Section 16. Form 4 or Form 5						
obligations may continue. See						
Instruction 1(b).						

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

											· ·							
1. Name and Address of Reporting Person*					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ ACI ]								elationship d eck all applic Directo	able)	g Pers	on(s) to Issu 10% Ow		
(Last)	(F YPLACE I	,	(Middle)			Date (3/03/2		st Trans	action (Mo	onth/[	Day/Year)	]	below)		Other (s below) ent - Bus Dev		specify	
(Street) ST. LOUIS MO 63141					4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								. Individual or Joint/Group Filing (Check Applicable ine)  X Form filed by One Reporting Person  Form filed by More than One Reporting Person				
(City)	(S		(Zip)															
			ole I - Noi			_			<del>-</del>	Dis	1							
D D			Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3,			Beneficia Owned F	es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	Reported Transact (Instr. 3 a	ion(s)		1	(Instr. 4)
Common	ommon Stock 03			03/0	03/200	/2005		M		3,024	A	\$45.0	1 7,	698	D			
Common Stock			03/0	/03/2005				М		0	A	\$0.00	9	995		I 4	3y 401(k) olan	
		,	Table II -								osed of, onvertib			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/Y	ate, Transa Code					6. Date Exercis Expiration Dat (Month/Day/Ye		е	7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficia Owned Following Reported Transacti	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				c	Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	5.1(3)		
Phantom Stock	(1)	03/03/2005			M			7,561	03/03/20	05	01/02/2009	Common Stock	7,561	(1)	0		D	
Restricted Stock Units	(1)	03/03/2005			A		1,512		(2)		(3)	Common Stock	1,512	(1)	1,512	2	D	

## **Explanation of Responses:**

- 1. 1-for-1
- 2. Restricted Stock Units are vested; Payment has been deferred until retirement.
- 3. None

## Remarks:

/s/ Janet L. Horgan, Attorney-

03/05/2005

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.