FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

	Washington	i, D.C. 20549	
STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

	OMB APPROVAL											
	OMB Number:	3235-028										
- 1	1											

37 Estimated average burden hours per response: 0.5

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

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

					· ·	0000	00(.	., 00		0001110111	••••	.pa.r.y / tot	00								
1. Name and Address of Reporting Person * $\underline{PEUGH\ DAVID\ B}$					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]											k all appli Directo	cable) or	10% Owne Other (spe below) ent - Bus Dev		wner	
(Last) (First) (Middle) ONECITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 01/31/2005										X	below)				specify
(Street)			63141 (Zip)		4. 11	f Ame	ndmer	nt, Date	of C	Original F	iled	(Month/D	ay/Yea	ar)		3. Indi Line) X	Form f	iled by One iled by Mor	Rep	g (Check Ap orting Perso n One Repo	on .
(City)	(3)		le I - No	n-Deriv	ative	e Sec	curiti	ies Ac	equ	ıired, [Disp	osed o	of, or	r Be	nefic	ally	Owned	<u> </u>			
1. Title of Security (Instr. 3)			2. Trans Date (Month/I		ar) E	2A. Deemed Execution Date, if any (Month/Day/Year)		·,	3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				and Securiti Benefici Owned		es Fo ially (D Following (I)		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership	
									Ī	Code	v	Amount		(A) or (D)	Pric	e	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
Common Stock				01/31	1/2005					A		1,008	8	A	\$30	5.55	4,	674		D	
Common Stock				01/31	1/2005					A		0		A	\$0	.00	990			Ι .	By 401(k) plan
		T	able II -	Deriva (e.g., p													wned				
1. Title of Derivative Security (Instr. 3) 1. Title of Conversion or Exercise Price of Derivative Security 1. Title of Date Execution I Date Execution I if any (Month/Day/Year) 2. Conversion Date Execution I if any (Month/Day/Year)		Date, Transacti Code (Ins					6. Date Exercisab Expiration Date (Month/Day/Year)				7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		J Securit	Di Si (li	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Natur of Indirec Beneficia Ownersh (Instr. 4)		
					Code	v	(A)	(D)	Da:	te ercisable		kpiration ate	Title		Amour or Number of Shares	er					
Restricted Stock Units	(1)	01/31/2005			M			1,008		(2)		(3)	Comi		1,00	3	\$36.55	2,772		D	

Explanation of Responses:

- 1. 1-for-1
- 2. Vested on January 31, 2005 based on the closing price of Arch Coal, Inc.'s common stock on January 31, 2005.
- 3. There is no expiration date for the Restricted Stock Units.

Remarks:

/s/ Janet L. Horgan, Attorneyin-Fact

02/02/2005

** 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.