FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL											
OMB Number:	3235-0287										
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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

1. Name and Address of Reporting Person* BESTEN C HENRY JR (Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI] 3. Date of Earliest Transaction (Month/Day/Year) 11/08/2010 4. If Amendment, Date of Original Filed (Month/Day/Year)									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) Senior VP - Strategic Dev. 6. Individual or Joint/Group Filing (Check Applicable					
(Street) ST. LOU (City)			53141 (Zip)		- 4. 11	Allie	snumen	, Date	о онуна гнев (монилоду теат)						Line)	9)				
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					action	ction 2A. Deemed Execution Date,			3. Transa	action	4. Securit	ties Acquired (A) o			r and	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)		6. Ownersh Form: Direc (D) or Indire (I) (Instr. 4)	of Indirec	ct al
Common Stock 11.					3/2010				S		19,100	\dashv	D	\$29.57		(Instr. 3 and 4) 21,989 ⁽¹⁾		I	By 401(k) plan	
Common Stock 11/09/)/2010						20,900		D	\$29.71		1,089(1)		I	By 401(k) plan	
Common	Stock	Ta									sed of, onvertib						7,616	D		
1. Title of Derivative Security (Instr. 3)	ve Conversion Date Execution Date, or Exercise (Month/Day/Year) if any		4. Transa Code (8)			6. Date E Expiration (Month/II) Date Exercise	on Date		Amount of Securities Underlying Derivative Security (Instr. and 4) Amour or Numbe of		nstr. 3			9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (I or Indire (I) (Instr	Beneficia) Ownershi ct (Instr. 4)	ct al nip			

Explanation of Responses:

1. Includes 1,306 shares acquired under Arch Coal's 401(k) plan since the date of the reporting person's last ownership report.

/s/ Jon S. Ploetz, Attorney-in-

11/10/2010

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.