FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPI	ROVAL
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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 = 1						1-				D ().		
1. Name and Address of Reporting Person*						2. Issuer Name and Ticker or Trading Symbol									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
BESTEN C HENRY JR						ARCH COAL INC [ACI]										Direc	,	10%	Owner	
-															X	Office	er (give title	Other below	(specify	
(Last) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year)											,		,	
ONE CITYPLACE DRIVE					12/	12/06/2010									Senior VP-Strategic Dev.					
SUITE 300																				
						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable					
(Street)															ine) X	Form	a filed by One	e Reporting Per	con	
ST. LOU	IS M	0 6	3141												Λ		,	e than One Re		
-																Pers		e man One Re	porung	
(City)	(St	ate) (Zip)																	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of S	ecurity (Inst	r. 3)		2. Trans	action	Execution Date, ay/Year) if any			3.						and Securities Beneficiall			6. Ownership	7. Nature	
				Date (Month/I	Day/Yea				Code (Instr. 5)		Of (D) (Instr. 3, 4 an		cially (D	Form: Direct (D) or Indirect			of Indirect Beneficial			
						(Month/Day/Year)			8)				Owned Followin Reported			(I) (Instr. 4)	Ownership (Instr. 4)			
						Code	v	Amount		(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)							
Common Stock 12/06/						/2010			S		27,610	6	D	\$32.99			0	D		
Table II. Derivative Securities Acquired Disposed of or Peneficially Owned																				
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
1. Title of	2.	3. Transaction	3A. Deem		4.		5. Number		6. Date Exercisable a							ice of 9. Number of			11. Nature	
Derivative Security	Conversion or Exercise	Date (Month/Day/Year)	Execution Date, if any	·	Transacti Code (Ins				Expiration Date (Month/Day/Year)			Amount of Securities			Derivative Security		derivative Securities	Ownership Form:	of Indirect Beneficial	
(Instr. 3) Price of (Month/Day/Y					ay/Year) 8)		Securities Acquired					Underlying Derivative			(Instr. 5)		Beneficially Owned	Direct (D) or Indirect	Ownership (Instr. 4)	
	Security					(A) or Security Disposed and 4)								str. 3			Following Reported	(I) (Instr. 4)	` ′	
							of (D)					"""					Transaction(s)	(s)		
						(Instr. 3, 4 and 5)										(111511. 4)				
				İ								Amount								
										or Number		mber								
					Code V (A) (D) Exercis						Expiration of Date Title Shares		ares							

Explanation of Responses:

Remarks:

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

12/07/2010

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.