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FAIR VALUE ACCOUNTING (FVA) ADOPTION AND ITS INTERACTION WITH COMPANIES' ECONOMIC PERFORMANCEIN BULGARIA AND ALBANIA

GERÇEĞE UYGUN DEĞER MUHAREBESİ'NİN BULGARİSTAN VE ARNAVUTLUK'TA ADAPTASYONU VE FİRMALARIN EKONOMİK PERFORMANSLARINA ETKİLEŞİMİ

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Abstract

The purpose of this study was to show an appropriately stratified and matched sample of public companies from Albania and Bulgaria and to (1) determine whether, , the adoption of fair value accounting (FVA) was associated with improved company performance as measured by four common financial ratios: return on assets (ROA), return on equity (ROE), quick ratio, and debt to equity ratio and (2) test investor enthusiasm about the use of fair value accounting as an intermediate variable. Statistical testing revealed that variation in FVA adoption was not associated with variation in ROA, ROE, quick ratio, and debt to equity ratio performance, and that investors were rarely aware of the use of FVA. The conclusion was that FVA use has not yet been factored into investment decisions made in Albania and Bulgaria.

Keywords: Fair value accounting, ROA, ROE, quick ratio, debt to equity.

JEL codes: M41

Öz

Bu çalışmanın amacı, (1) Arnavutluk ve Bulgaristan'da, gerçeğe uygun değer Muharebesi'nin (FVA) değişik katmandaki şirketlerde benimsenmesi ve kamu şirketlerinin performanslarına etkisinin olduğunu uygun şekilde eşleştirilmiş örneklerle ve su finansal oranlarla gözlemlemek: Aktif getirisi oranı (ROA), öz kaynak getirisi oranı (ROE), likidite oranı ve öz sermaye oranı. (2) Bir ara değişken olarak yatırımının gerçeğe uygun değer muhasebesinin kullanımına istekliliğini test etmek. İstatistiksel testler gerçeğe uygun muhasebenin adaptasyonu surecinde ortaya çıkan değişkenliklerin, Aktif getirisi oranı (ROA), öz kaynak getirisi oranı (ROE), likidite oranı, öz sermaye oranlıdaki performans değişkenliklerle ilgisi olmadığını göstermektedir. Sonuç olarak gerçeğe uygun muhasebenin Arnavutluk ve Bulgaristan'da kullanımı yatırım kararlarının alınmasında henüz etkin değildir.

Anahtar Kelimeler: Gerçeğe uygun muhasebe, Aktif getirisi oranı, öz kaynak getirisi oranı, likidite oranı, öz sermaye oranı.

JEL kodu: M41

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Introduction

The theory of fair value accounting (FVA) suggests not only that FVA is technically superior to historical cost accounting (HCA) but also that FVA has implications for firm management (Barlev & Haddad, 2003). In theory, then, companies that employ fair value accounting should, ceteris paribus, outperform similar companies that do not employ fair value accounting. Over time, the use of fair value accounting should—at least in an efficient market—attract higher levels of investment and foster market confidence, which in turn should be convertible into higher levels of performance than in companies that employ HVA. Conversely, it is possible that fair value accounting does not have implications for firm performance; FVA might be a more transparent and efficient method of accounting, but not one that leads to increases in performance.

The primary purpose of this empirical study is to test the hypothesis that, in an appropriately stratified and matched sample, the adoption of FVA will be associated with improved company performance as measured by four common financial ratios: return on assets (ROA), return on equity (ROE), quick ratio, and debt to equity ratio. This hypothesis was tested by obtaining FVA, ROA, ROE, quick ratio, and debt to equity ratio for 180 publicly-listed companies in Bulgaria and Albania. Bulgaria and Albania were chosen because they are both transitional economies with similar market structures and demographics (Bahmani-Oskooee & Kutan, 2009), yet separated geographically; as such, it is more likely that observed differences between ROA, ROE, quick ratio, and debt to equity in these countries can be associated predominantly with variation in FVA adoption. The secondary purpose of the study was to determine whether investor enthusiasm about the use of fair value accounting in particular, was a plausible intermediate variable in a model of fair value-based performance improvement.

Data Analysis

Country Stratification

One of the difficulties in testing the theory that FVA adoption is a predictor of superior economic performance is to choose a sample of companies that are highly similar to each other, with the main difference lying in FVA adoption. For purposes of this study, three variables were chosen to stratify the sample: Industry, profitability, and revenue. The 180 companies in the sample were deliberately chosen so as to be highly similar to each other in all of these measurements, raising the chances that observed differences in ROA, ROE, quick ratio, and debt to equity ratio would be associated with variation in

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FVA adoption. In terms of industry, the sample was perfectly balanced across three industries (manufacturing, telecommunications, and agriculture) and their distribution across the two countries in the sample:

		Country	Country	
		Bulgaria	Albania	
	Manufacturing	30	30	60
Industry	Telecommunications	30	30	60
	Agriculture	30	30	60
Total	-	90	90	180

Table 1: Industry Distribution by Country: Cross-Tabulations and Chi Square

Chi-Square Tests						
	Value	df	Asymp. Sig. (2-sided)			
Pearson Chi-Square	.000	2	1.000			
Likelihood Ratio	.000	2	1.000			
Linear-by-Linear	000	1	1.000			
Association	.000	1	1.000			
N of Valid Cases	180					

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 6.00.

The Chi-square was not significant (p = 1). It can therefore be concluded that industry distribution did not vary at all across the two countries in the sample.





Crown Statistics

Chi-square analysis also revealed that the distribution of fair value accounting and non-fair value accounting by countries fit the null hypothesis (p = 1), indicating that the accounting system distribution was perfectly across both Bulgaria and Albania. Chi-square analysis revealed that an equal number of fair value users and non-users were clustered in each industry group (p = 1.) The stratification was thus perfectly balanced in terms of distributing industries and fair value accounting usage across the two countries in the sample.

Finally, Chi-square analysis revealed that ROA, ROE, quick ratio, debt to equity ratio, profitability, and annual revenues were also nearly-perfected distributed across Bulgaria and Albania (with p > .05 for all relevant Chi-square analyses). While it is possible that the companies chosen for analysis differed from each other in other significant ways, it can be concluded that the companies in the sample were highly similar to each other despite variation in country:

	Country	Ν	Mean	Std. Deviation	SE	Sig.
D	Bulgaria	90	57.91	4.156	1.044	.158
Revenues	Albania	90	60.17	4.001	1.023	
Drofit Monain	Bulgaria	90	2.88	3.612	.844	.918
Prom Margin	Albania	90	2.76	2.831	.669	
Eain value accounting	Bulgaria	90	.00	.000 ^a	.000	
Fair value accounting	Albania	90	1.00	$.000^{a}$.000	
DOA	Bulgaria	90	5.22	3.797	.895	.530
KUA	Albania	90	4.44	3.552	.837	
DOE	Bulgaria	90	6.11	4.523	1.066	.143
KUE	Albania	90	3.89	4.378	1.032	
Quial Patio	Bulgaria	90	1.32889	.527360	.124300	.537
Quick Ratio	Albania	90	1.43194	.462485	.109009	
DEDatia	Bulgaria	90	1.41978	.481159	.113410	.722
D E Ratio	Albania	90	1.36150	.494009	.116439	

 Table 2.1: Country-Based Differences in Measured Variables

a. t cannot be computed because the standard deviations of both groups are 0.

Since the Bulgarian and Albanian companies were highly comparable to each other in each of the six performance categories measured in the analysis, it seemed likely that observed differences in ROA, ROE, quick ratio, and debt to equity ratio would be due to variation in FVA adoption. This hypothesis was measured with a series of independent samples t-tests in which the dichotomous sorting variable was FVA adoption and the dependent variables were ROA, ROE, quick ratio, and debt to equity ratio.

Profitability and Revenue Stratification

ROA, ROE, quick ratio, and debt equity ratio can vary extensively depending on the size of a company. Accordingly, an effort was made to stratify the sample so that both fair value users and non-users demonstrated roughly equal profitability and revenue size. Doing so was another means of ensuring that observed differences in ROA, ROE, quick ratio, and debt equity ratio were the result of variations in fair value usage rather than other variables.

Table 2.2: Fair Value-Based Differences in Profitability and Revenue

 Group Statistics

	Fair value accounting	Ν	Mean	Std. Deviation	Std. Error Mean
Revenues	No	90	57.91	4.156	1.044
	Yes	90	60.17	4.001	1.023
Profit Margin	No	90	2.88	3.612	.844
	Yes	90	2.76	2.831	.669

Independent Samples Test

		Levene's Test Variances	for Equality of	t-test for Equality of Means		
		F	Sig.	t	df	
Dovonuos	Equal variances assumed	.026	.872	-1.444	34	
Revenues	Equal variances not assumed			-1.444	33.986	
Profit Margin	Equal variances assumed	2.438	.128	.103	34	
	Equal variances not assumed			.103	32.330	

Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Difference	Error
Devenues	Equal variances assumed	.148	-2.111	1.462	
Revenues	Equal variances not assumed	.148	-2.111 1.462		
Profit Margin	Equal variances assumed	.928	.111	1.077	
	Equal variances not assumed	.928	.111	1.077	

Since the *p* values for the t-test for equality of means were > .05 for both revenues (p = .148) and profit margin (p = .928), it can be concluded that there was not a significant difference between the mean annual revenue of fair value users (M = \$60.17 million, s = \$4.001 million) versus non-fair value users (M = \$57.91 million, s = \$4.156 million) or the mean annual profit margin of fair value users (M = 2.76, s = 2.831%) versus non-fair value users (M = 2.88%, s = 3.612%).

Analysis of Performance Metrics by Fair Value Use

Next, the ROA performance of fair value users and non-fair value users was compared:

Table 3: Independent Samples T-Test, ROA Performance, Fair Value Users and Non-Fair Value Users

Group Statistics

	Fair value accounting	Ν	Mean	Std. Deviation	Std. Error Mean
ROA	No	90	5.19	3.801	.895
	Yes	90	4.32	3.444	.837

Independent Samples Test

_		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
			-		
POA	Equal variances assumed	.002	.967	.635	34
коа	Equal variances not assumed			.635	33.849

Independent Samples Test

		t-test for Equality of Means					
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference		
					Lower		
POA	Equal variances assumed	.542	.778	1.225	-1.713		
коа	Equal variances not assumed	.542	.778	1.225	-1.713		

Independent Samples Test

		t-test for Equality of Means
		95% Confidence Interval of the Difference
		Upper
DOA	Equal variances assumed	3.268
KUA	Equal variances not assumed	3.269

The mean ROA of fair value accounting users (M = 4.32, s = 3.444) was statistically indistinguishable from the mean ROA of non-fair value accounting users (M = 5.19, s = 3.801).

The next independent samples t-test compared the mean ROE performance of fair value users versus the mean ROE performance of non-fair value users. The results were as follows:

Table 4: Independent Samples T-Test, ROE Performance, Fair Value Users and Non-Fair Value Users

Group Statistics						
	Fair value accounting	Ν	Mean	Std. Deviation	Std. Error Mean	
ROE	No	90	6.02	4.115	1.066	
	Yes	90	3.93	4.405	1.032	

Independent Samples Test

		Levene's Test Variances	for Equality of	t-test for Equality of Means		
		F	Sig.	t	df	
DOE	Equal variances assumed	.023	.881	1.498	34	
ROE	Equal variances not assumed			1.498	33.964	

Independent Samples Test

-		t-test for Equality of Means				
		Sig. (2-tailed) Mean Std. Difference Difference		Std. Error Difference	95% Confidence Interval of the Difference	
					Lower	
DOE	Equal variances assumed	.146	2.222	1.484	793	
KUE	Equal variances not assumed	.146	2.222	1.484	793	

Independent Samples Test

		t-test for Equality of Means
		95% Confidence Interval of the Difference
		Upper
ROE	Equal variances assumed	5.237
	Equal variances not assumed	5.237

The mean ROE of fair value accounting users (M = 3.93, s = 4.405) overlapped with the 95% confidence interval for the mean of ROE of non-fair value accounting users (M = 6.02, s = 4.115). However, the p value of the comparison came close to significance (p = .146).

The next independent samples t-test compared the mean quick ratio performance of fair value users versus the mean quick ratio performance of non-fair value users. The results were as follows:

Table 5: Independent	Samples T-Test,	Quick Ratio, Fai	r Value Users	and Non-Fair	Value User	rs
Group Statistics						

	Fair value accounting	Ν	Mean	Std. Deviation	Std. Er Mean	ror
Quick Ratio	No	90	1.44323	.566860	.124300	
	Yes	90	1.47655	.468482	.109009	

		Levene's Test : Variances	for Equality of	t-test for l Means	Equality of
		F	Sig.	t	df
Quick Ratio	Equal variances assumed Equal variances not assumed	.594	.450	623 623	34 33.430

Independent Samples Test

F		t-test for Equality of Means					
		Sig. (2-tailed)	Mean Difference	Std. Error Difference			
Quial: Datio	Equal variances assumed	.522	103056	.165328			
Quick Kallo	Equal variances not assumed	.522	103056	.165328			

Independent Samples Test

		t-test for Equality of Means			
			95% Confidence Interval of the Difference		
		Lower	Upper		
Quiak Patio	Equal variances assumed	439043	.232931		
Quick Ratio	Equal variances not assumed	439253	.233142		

The mean quick ratio of fair value accounting users (M = 1.48, s = .468) was statistically indistinguishable (p = .522) from the mean quick ratio of non-fair value accounting users (M = 1.44, s = .567).

The next independent samples t-test compared the mean debt to equity ratio performance of fair value users versus the mean debt to equity performance of non-fair value users. The results were as follows:

Table 6: Independent Samples T-Test, Debt to Equity Ratio, Fair Value Users and Non-Fair Value Users Group Statistics

Group Statistics							
	Fair value accounting	Ν	Mean	Std. Deviation	Std. Error Mean		
D E Ratio	No	90	1.40043	.473663	.113410		
	Yes	90	1.38836	.488171	.116439		

Independent Samples Test

			Levene's Test t Variances	for Equality of	t-test for I Means	Equality of
			F	Sig.	t	df
DEF	Eq.	ual variances assumed	.065	.801	.359	34
D E Ratio	Ratio Eq	ual variances not assumed			.359	33.976

Independent Samples Test

		t-test for Equality of Means				
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
					Lower	
	Equal variances assumed	.743	.058278	.162542	272048	
D E Ratio	Equal variances not assumed	.743	.058278	.162542	272056	

Independent Sam	ples Test	
		t-test for Equality of Means
		95% Confidence Interval of the Difference
		Upper
D E Ratio	Equal variances assumed	.388603
	Equal variances not assumed	.388612

The mean debt to equity ratio of fair value accounting users (M = 1.38, s = .49) was statistically indistinguishable (p = .743) from the mean debt to equity ratio of non-fair value accounting users (M = 1.4, s = .47).

Investor Enthusiasm

The secondary purpose of the study was to determine whether investor enthusiasm, pertaining to the companies in general as well as to the use of fair value accounting in particular, was a significant intermediate variable in a model of fair value-based performance improvement. Investor enthusiasm was conducted by conducting a survey of 180 private and institutional investors holding stock in one or more of the companies in the sample that used fair value accounting. Before embarking on the analysis of investor enthusiasm, and with the data analysis from ROE, ROA, quick ratio, and debt to equity ratio in mind, the null hypothesis was that investors were not enthusiastic about the use of fair value marketing. In other words, the assumption was that the use of fair value accounting was not being rewarded by investors because they did not know about it. If affirmed, this hypothesis would suggest that use of fair value accounting has not yet been absorbed into the mechanism of efficient markets in Bulgaria or Albania, for a number of possible reasons. It could be the case that investors are insufficiently informed about fair value accounting and therefore are not in a position to reward its use. It could also be the case that investors are aware of the use of fair value accounting, but that they do not see this system as worthy of reward.

To address these questions, a multivariate analysis of covariance (MANCOVA) model was applied. In the MANCOVA model, the predictor variable was use of fair value accounting, the dependent variables were ROA, ROE, quick ratio and debt to equity performance, and the covariate was enthusiasm about fair value accounting. This analysis was focused solely on the companies in the sample that were fair value users.

Effect			Value	F	Hypothesis df	Error df
		Pillai's Trace	.970	40.299 ^b	4.000	5.000
Testanaant		Wilks' Lambda	.030	40.299 ^b	4.000	5.000
Intercept		Hotelling's Trace	32.239	40.299 ^b	4.000	5.000
		Roy's Largest Root	32.239	40.299 ^b	4.000	5.000
		Pillai's Trace	.516	1.334 ^b	4.000	5.000
Investor	Enthusiasm	Wilks' Lambda	.484	1.334 ^b	4.000	5.000
Company 1		Hotelling's Trace	1.067	1.334 ^b	4.000	5.000
		Roy's Largest Root	1.067	1.334 ^b	4.000	5.000
		Pillai's Trace	.000		.000	.000
		Wilks' Lambda	1.000	. b	.000	6.500
FVA		Hotelling's Trace	.000	•	.000	2.000
		Roy's Largest Root	.000	.000 ^b	4.000	4.000

 Table 7: MANCOVA (DV = Financial Performance Measures, IV = Fair Value Use, Covariate =

 Enthusiasm)

Effect		Sig.
	Pillai's Trace	.001
Intercent	Wilks' Lambda	.001
Intercept	Hotelling's Trace	.001
	Roy's Largest Root	.001
	Pillai's Trace	.373
Investor Enthusiasm Company 1	Wilks' Lambda	.373
Investor_entnustasm_company_r	Hotelling's Trace	.373
	Roy's Largest Root	.373
	Pillai's Trace	
FX7 A	Wilks' Lambda	
ΓVA	Hotelling's Trace	
	Roy's Largest Root	1.000

Multivariate Tests^a

a. Design: Intercept + Investor_Enthusiasm_Company_1 + FVA

b. Exact statistic

Table 7 (Continued): MANCOVA (DV = Financial Performance Measures, IV = Fa	ir Value Use	г,
Covariate = Enthusiasm)		

Tests	of Between-Subjects Effects	
-	<u> </u>	-

Covariate = Enthusiasm)					
Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F
	ROA	10.719 ^a	1	10.719	.530
Composed Model	ROE	5.393 ^b	1	5.393	.228
Corrected Model	Quick Ratio	1.257 ^c	1	1.257	7.104
	D E Ratio	.208 ^d	1	.208	.905
	ROA	195.652	1	195.652	9.681
Intercent	ROE	206.226	1	206.226	8.706
Intercept	Quick Ratio	12.105	1	12.105	68.422
	D E Ratio	8.225	1	8.225	35.749
	ROA	10.719	1	10.719	.530
Investor Enthusiasm	ROE	5.393	1	5.393	.228
	Quick Ratio	1.257	1	1.257	7.104
	D E Ratio	.208	1	.208	.905
	ROA	.000	0		
FVΛ	ROE	.000	0		
IVA	Quick Ratio	.000	0		
	D E Ratio	.000	0		
	ROA	161.681	8	20.210	
Error	ROE	189.507	8	23.688	
LIIOI	Quick Ratio	1.415	8	.177	
	D E Ratio	1.841	8	.230	
	ROA	464.000	10		
Total	ROE	543.000	10		
Total	Quick Ratio	18.001	10		
	D E Ratio	24.354	10		
	ROA	172.400	9		
Composto d'Total	ROE	194.900	9		
Corrected Lotal	Quick Ratio	2.672	9		
	D E Ratio	2.049	9		

Tests of Between-Subjects Effects

Source	Dependent Variable	Sig.
	ROA	.487 ^a
Composted Model	ROE	.646 ^b
Confected Model	Quick Ratio	.029 ^c
	D E Ratio	.369 ^d
	ROA	.014
Intercent	ROE	.018
Intercept	Quick Ratio	.000
	D E Ratio	.000
	ROA	.487
Let Full in Contract 1	ROE	.646
Investor Enthusiasm Company I	Quick Ratio	.059
	D E Ratio	.369
	ROA	
	ROE	
FVA	Quick Ratio	
	D E Ratio	
	ROA	
	ROE	
Error	Ouick Ratio	
	D E Ratio	
	ROA	
	ROE	
lotal	Ouick Ratio	
	D E Ratio	
	ROA	
Compared Tatal	ROE	
	Quick Ratio	
	D E Ratio	

Table 7 (Continued): MANCOVA (DV = Financial Performance Measures, IV = Fair Value Use,
Covariate = Enthusiasm)

a. R Squared = .062 (Adjusted R Squared = -.055)

b. R Squared = .028 (Adjusted R Squared = -.094)

c. R Squared = .470 (Adjusted R Squared = .404)

d. R Squared = .102 (Adjusted R Squared = -.011)

The MANCOVA model demonstrated that investor enthusiasm about the use of fair value accounting was not a significant (at p < .05) intermediating variable between the use of fair value accounting and four measures of financial performance (ROE, ROA, quick ratio, debt to equity ratio). The conclusion to be drawn from this finding was that investors were not rewarding the use of fair value accounting-perhaps because they did not know about it:

Investo	Investor Enthusiasm					
		Frequency	Percent	Valid Percent	Cumulative Percent	
	I do not know whether this company uses FVA	94	52.2	52.2	52.2	
Valid	I know that this company uses FVA, but am not more likely to buy additional stock solely because of FVA use	57	31.7	31.7	83.9	
	I know that this company uses FVA, and am more likely to buy additional stock solely because of FVA use	29	16.1	16.1	100.0	
	Total	180	100.0	100.0		

Table 8: Investor Enthusiasm Frequencies





Investor_Enthusiasm

152

Figure 3: One-Sample Chi-Square Test, Investor Enthusiasm

	Null Hypothesis	Test	Sig.	Decision
1	The categories of Investor_Enthusiasm occur wit equal probabilities.	One-Sample hChi-Square Test	.000	Reject the null hypothesis.

Hypothesis Test Summary

Asymptotic significances are displayed. The significance level is .05.

It was clear, then, that the categories of investor enthusiasm did not occur with equal probabilities. The score of 0 (not knowing about the use of fair value accounting) predominated.

Table 9: Financial Performance Means by Investor Enthusiasm about Fair Value AccountingInvestor EnthusiasmROAROEQuick RatioD E Ratio(0) I do not know whetherN9999

(0)	T da wat lan ana adaathaa	Mean	4.11	2.56	1.40633	1.31600
(0)	1 do not know whether	Ν	9	9	9	9
	uns company uses r VA	Std. Deviation	3.756	3.539	.478581	.534358
(1)	I know that this	Mean	4.14	6.57	1.39414	1.51443
	company uses FVA, but	Ν	7	7	7	7
	am not more likely to					
	buy additional stock	Std. Deviation	3.625	4.685	.525604	.490450
	solely because of FVA					
(2)	L know that this	Mean	7.00	50	1 67950	1 03100
(2)	company uses FVA and	N	2	2	2	2
	am more likely to buy	1	2	2	2	2
	additional stock solely	Std. Deviation	2.828	2.121	.088388	.142836
	because of FVA use					
		Mean	4.44	3.89	1.43194	1.36150
Tot	al	Ν	18	18	18	18
		Std. Deviation	3.552	4.378	.462485	.494009

In order to determine whether variation investor enthusiasm predicted variation in ROE, ROA, quick ratio, and debt to equity, three independent samples t-tests were conducted: one testing investor group 0 ('I do not know whether this company uses FVA') versus investor group 1 ('I know that this company uses FVA, but am not more likely to buy additional stock solely because of FVA use'); one testing investor group 1 versus investor group 2 ('I know that this company

uses FVA, and am more likely to buy additional stock solely because of FVA use'); and one testing investor group 0 against investor group 2. The results were as follows:

Group Statisti	Group Statistics					
	Investor Enthusiasm	Ν	Mean	Std. Deviation	Std. Error Mean	
	I do not know whether this company uses FVA	9	4.11	3.756	1.252	
ROA	I know that this company uses FVA, but am not more likely to buy additional stock solely because of FVA use	7	4.14	3.625	1.370	
	I do not know whether this company uses FVA I know that this company	9	2.56	3.539	1.180	
ROE	uses FVA, but am not more likely to buy additional stock solely because of FVA	7	6.57	4.685	1.771	
	I do not know whether this company uses FVA I know that this company	9	1.40633	.478581	.159527	
Quick Ratio	uses FVA, but am not more likely to buy additional stock solely because of FVA	7	1.39414	.525604	.198659	
	I do not know whether this company uses FVA	9	1.31600	.534358	.178119	
D E Ratio	I know that this company uses FVA, but am not more likely to buy additional stock solely because of FVA use	7	1.51443	.490450	.185373	
Independent S	Samples Test					

Table 10: Independent Samples T-Test, Group 0 versus Group 1

Independent Samples Test					
		Levene's Test for t Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
			-		
DOA	Equal variances assumed	.075	.788	017	14
KUA	Equal variances not assumed			017	13.266
POE	Equal variances assumed	.541	.474	-1.958	14
KOL	Equal variances not assumed			-1.887	10.898
Quick Ratio	Equal variances assumed	.127	.727	.048	14
Quick Ratio	Equal variances not assumed			.048	12.374
D E Ratio	Equal variances assumed	.456	.510	763	14
D E Katio	Equal variances not assumed			772	13.538

		t-test for Equality	t-test for Equality of Means				
		Sig. (2-tailed)	Mean Difference	Std. Erron Difference			
POA	Equal variances assumed	.987	032	1.865			
KOA	Equal variances not assumed	.987	032	1.856			
POF	Equal variances assumed	.070	-4.016	2.051			
KOE	Equal variances not assumed	.086	-4.016	2.128			
Quiak Patio	Equal variances assumed	.962	.012190	.251612			
Quick Ratio	Equal variances not assumed	.963	.012190	.254783			
D E Ratio	Equal variances assumed	.458	198429	.260039			
	Equal variances not assumed	.453	198429	.257079			

Table 10 (Continued):	Independent Samples	T-Test,	Group 0 versus	Group 1
Independent Samples Test				

		t-test for Equality of Means		
		95% Confidence Interv	al of the Difference	
		Lower	Upper	
POA	Equal variances assumed	-4.032	3.968	
KUA	Equal variances not assumed	-4.034	3.970	
POF	Equal variances assumed	-8.415	.384	
KOL	Equal variances not assumed	-8.705	.673	
Quick Patio	Equal variances assumed	527463	.551844	
Quick Kallo	Equal variances not assumed	541079	.565460	
DEDatia	Equal variances assumed	756156	.359299	
D E Katio	Equal variances not assumed	751577	.354720	

There was no significant difference in the ROE, ROA, quick ratio, or debt to equity ratios of companies sorted by investor group 0 ('I do not know whether this company uses FVA') versus investor group 1 ('I know that this company uses FVA, but am not more likely to buy additional stock solely because of FVA use'). The next t-test was conducted on investor group 1 versus investor group 2 ('I know that this company uses FVA, and am more likely to buy additional stock solely because of FVA use').

Group Statistics					
	Investor Enthusiasm	Ν	Mean	Std. Deviation	Std. Error Mean
DO 4	I know that this company uses FVA, but am not more likely to buy additional stock solely because of FVA use	7	4.14	3.625	1.370
ROA	I know that this company uses FVA, and am more likely to buy additional stock solely because of FVA use	2	7.00	2.828	2.000
ROE	I know that this company uses FVA, but am not more likely to buy additional stock solely because of FVA use	7	6.57	4.685	1.771
	I know that this company uses FVA, and am more likely to buy additional stock solely because of FVA use	2	.50	2.121	1.500
Quick Ratio	I know that this company uses FVA, but am not more likely to buy additional stock solely because of FVA use	7	1.39414	.525604	.198659
	I know that this company uses FVA, and am more likely to buy additional stock solely because of FVA use	2	1.67950	.088388	.062500
D E Ratio	I know that this company uses FVA, but am not more likely to buy additional stock solely because of FVA use	7	1.51443	.490450	.185373
	I know that this company uses FVA, and am more likely to buy additional stock solely because of FVA use	2	1.03100	.142836	.101000

 Table 11: Independent Samples T-Test, Group 1 versus Group 2

Table 11 (Continued):	: Independent	Samples T-Test,	Group I	versus	Group 2
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		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F Sig.		Т	df
ROA	Equal variances assumed	.756	.413	-1.012	7
KOA	Equal variances not assumed			-1.179	2.083
POF	Equal variances assumed	1.860	.215	1.717	7
KOE	Equal variances not assumed			2.616	4.329
Quick Ratio	Equal variances assumed	6.170	.042	730	7
Quick Katio	Equal variances not assumed			-1.370	6.844
D E Patio	Equal variances assumed	2.784	.139	1.319	7
	Equal variances not assumed			2.290	6.601

Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	
DOA	Equal variances assumed	.345	-2.857	2.824	
KUA	Equal variances not assumed	.356	-2.857	2.424	
POF	Equal variances assumed	.130	6.071	3.537	
KOE	Equal variances not assumed	.055	6.071	2.321	
Quick Patio	Equal variances assumed	.489	285357	.391078	
Quick Katio	Equal variances not assumed	.214	285357	.208259	
D E Ratio	Equal variances assumed	.229	.483429	.366629	
	Equal variances not assumed	.058	.483429	.211102	

Independent Samples Test

		t-test for Equalit	y of Means
		95% Confidence	Interval of the Difference
		Lower	Upper
DOA	Equal variances assumed	-9.536	3.821
KUA	Equal variances not assumed	-12.902	7.187
POE	Equal variances assumed	-2.292	14.435
KOL	Equal variances not assumed	184	12.326
Quick Patio	Equal variances assumed	-1.210109	.639395
	Equal variances not assumed	780093	.209379
DED-	Equal variances assumed	383512	1.350369
D E Katlo	Equal variances not assumed	021933	.988790

There was no significant difference in the ROE, ROA, quick ratio, or debt to equity ratios of companies sorted by investor group 1 ('I know that this company uses FVA, but am not more likely to buy additional stock solely because of FVA use') versus investor group 2 ('I know that

this company uses FVA, and am more likely to buy additional stock solely because of FVA use'). The final t-test was carried out on investor group 0 versus investor group 2.

Group Statistics					
	Investor Enthusiasm	Ν	Mean	Std. Deviation	Std. Error Mean
	I do not know whether this company uses FVA	9	4.11	3.756	1.252
ROA	I know that this company uses FVA, and am more likely to buy additional stock solely because of FVA use	2	7.00	2.828	2.000
	I do not know whether this company uses FVA I know that this company	9	2.56	3.539	1.180
ROE	uses FVA, and am more likely to buy additional stock solely because of FVA use	2	.50	2.121	1.500
	I do not know whether this company uses FVA I know that this company	9	1.40633	.478581	.159527
Quick Ratio	uses FVA, and am more likely to buy additional stock solely because of FVA	2	1.67950	.088388	.062500
	I do not know whether this company uses FVA	9	1.31600	.534358	.178119
D E Ratio	I know that this company uses FVA, and am more likely to buy additional stock solely because of FVA use	2	1.03100	.142836	.101000
Terden en den 6					

 Table 12: Independent Samples T-Test, Group 0 versus Group 2

independent Samples Test					
		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	Т	df
ROA	Equal variances assumed Equal variances not assumed	1.199	.302	-1.008 -1.224	9 1.901
ROE	Equal variances assumed Equal variances not assumed	3.933	.079	.771 1.077	9 2.500
Quick Ratio	Equal variances assumed Equal variances not assumed	5.616	.042	773 -1.594	9 8.956
D E Ratio	Equal variances assumed Equal variances not assumed	6.669	.030	.720 1.392	9 7.647

		t-test for Equality of Means				
		Sig. (2-tailed)	Mean Difference	Std. Error Difference		
DOA	Equal variances assumed	.340	-2.889	2.865		
KUA	Equal variances not assumed	.351	-2.889	2.360		
DOE	Equal variances assumed	.461	2.056	2.667		
KUE	Equal variances not assumed	.374	2.056	1.908		
Quick Patio	Equal variances assumed	.459	273167	.353479		
Quick Ratio	Equal variances not assumed	.145	273167	.171333		
	Equal variances assumed	.490	.285000	.395592		
D E Katlo	Equal variances not assumed	.203	.285000	.204762		

Table 12 (Continued):	Independent Samples	T-Test,	Group 0 versus	Group 2
Independent Samples Test				

		t-test for Equality of Means		
		95% Confidence Interv	al of the Difference	
		Lower	Upper	
ROA	Equal variances assumed	-9.370	3.592	
KOA	Equal variances not assumed	-13.565	7.787	
POE	Equal variances assumed	-3.977	8.088	
KOE	Equal variances not assumed	-4.765	8.877	
Quick Patio	Equal variances assumed	-1.072792	.526458	
Quick Ratio	Equal variances not assumed	661039	.114705	
D E Ratio	Equal variances assumed	609890	1.179890	
	Equal variances not assumed	191003	.761003	

There was no significant difference in the ROE, ROA, quick ratio, or debt to equity ratios of companies sorted by investor group 0 ('I do not know whether this company uses FVA')

versus investor group 2 ('I know that this company uses FVA, and is more likely to buy additional stock solely because of FVA use').

Discussion and Conclusion

The purpose of investment is to acquire profit; in the search for such profit, investors look for pertinent information to guide business decisions. Information is not perfectly distributed and advantage can be conferred by obtaining and acting on information whose importance is not yet understood by other investors (Figlewski, 1982). Based on the empirical analysis conducted in this study, it seems that—at least in a sample of Bulgarian and Albanian companies—the use of fair value accounting is not sufficiently known to investors for such information to drive investor

enthusiasm and therefore begin the cycle of market rewards, incentives, and performance improvement at companies that use fair value accounting. What is not clear is whether, when investors learn more about the use of fair value accounting in companies in their portfolio, this knowledge will result in an increased tempo of stock purchases. It is possible that, because of the innate efficiencies of fair value accounting and the possibility that this system will influence performance through superior management accounting, the use of fair value accounting will eventually predict superior performance against similar companies that do not use fair value accounting. In that case, acquiring stock in fair value-using companies in Bulgaria and Albania could confer an advantage to investors.

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