INCOME SMOOTHING AND MARKET PERCEPTION OF ACCOUNTING NUMBERS: AN EMPIRICAL INVESTIGATION OF EXTRAORDINARY ITEMS

Wan Adibah Wan Ismail, Khairul Anuar Kamarudin and Muhd Kamil Ibrahim

BSTRACT

which has limited the scope of extraordinary items. It is found that there are significant on the incidence of reported extraordinary items during the period after the adoption of standard. The findings supported the arguments that the new standard on extraordinary the standard consequently reduce significantly the items from financial statements. This paper the sizes that extraordinary items classification choice is a means used by companies to smooth the two types of statistical tests performed have confirmed the proposition that the disclosure traordinary items is subject to this type of manipulation during the period before the adoption the new standard. Although it is proved that the broad definition of extraordinary items allows manipulate income, evidence gathered from multivariate regressions demonstrate extraordinary items are value-relevance for investors in valuing a firm's equity. Thus, investors into account the extraordinary items even though it is disclosed 'below the line'.

I INTRODUCTION

Financial statements are prepared in order to communicate economic measurements and mormation about the resources and performance of a reporting entity. One could argue that the purposes of financial statements are to provide information about the financial position, performance and cash flow of an enterprise and to show the results of management's stewardship of the resources entrusted to it, for the use of a wide range of users in making economic decisions. Since the users

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of financial statements have no access to a company's accounting records, they depend greatly on the financial statements when making judgments and decisions. However, the increasing trend of creative accounting has made the financial statements less reliable and less transparent. Accountants prepare the statements to "window-dress" their organizations by taking advantage of the loopholes in accounting standards. Although creative accounting is not against the law, in the hands of less scrupulous management, it can be a highly dangerous instrument of deception (Naser, 1993). The investing community at large can be misled into making decisions from information which is based on manipulated accounting figures. To a certain extent, the existence of creative accounting distorts the usefulness of financial statements and impedes them from meeting the prescribed objectives.

This research examines one component in financial statements that is very commonly subjected to creative accounting that is the extraordinary items. The International Accounting Standard (IAS) 8 issued by the International Accounting Standard Committee (IASC) in 1978 has broadly defined extraordinary items as

"...gains or losses that derive from events or transactions that are distinct from the ordinary activities of the enterprise and therefore no expected to recur frequently or regularly" (Para. 3).

This standard was adopted in Malaysia as Standard International 8 (SI 8). It is argued that as a result of this broad definition of extraordinary items, companies have considerable discretion in classifying items as "extraordinary" or part of ordinary operations. A company may use the category of extraordinary items to report costs to be excluded from the company's pretax income, and more importantly, from its earnings per share record (Naser, 1993). This is because an earnings per share is the main component in the price earnings ratio, which is used by the stock market as a key performance indicator. Other than the price earnings ratio, financial ratios such as return on equity (ROI) and return on asset (ROA) that are widely used by investors also depend on the net profit after tax, which excludes extraordinary items. As discussed by Choo and Peter (1998), investors tend to fixate on net profit after tax (the bottom line) and pay little or no attention to extraordinary items although the latter form part of the enterprise's performance for the period.

The manipulation of extraordinary items in the income statements has some impact on the company's shareholders. It is common that investors use the reported income for a particular accounting period to assess the current performance of the enterprise and to form or revise their expectations of the income of the enterprise in the future (Choo and Peter, 1998). With the manipulation, these investors can be misled into making decisions from information, which is

sor fair. Therefore, what constitutes as extraordinary items is an important question be taken seriously by the accounting professionals.

statements, accounting standard setting bodies have taken steps to revise the accounting the reporting of extraordinary items by redefining what constitutes extraordinary standard setting bodies provide a narrow definition of the items. According to Abdullah standard setting bodies provide a standard was expected to curb the abuse in the extraordinary items. A study by Naser (1993), recommended that a stricter accounting was the most agreed solution to eliminate the use of creative accounting.

the IASC amended the International Accounting Standard (IAS) 8 and issued a revised standard on extraordinary items IAS 8 (Revised), Net Profit or Loss for the Period, Error and Changes in Accounting Policies, which covered the reporting of extraordinary other things. Under the revised standard, extraordinary items were defined as

become or expenses that arise from events or transactions that are clearly distinct that are ordinary activities of the enterprise and therefore not expected to recur frequently regularly.

word "clearly" was added to reduce the degree of generality in the original definition of the wordinary items. In a step further, the term "ordinary activities" was defined as

activities which are undertaken by an enterprise as part of its business and such related activities in which the enterprise engages in furtherance of, incidental to, or arising from clearly those activities."

In addition to this, Paragraph 12 of IAS 8 (Revised) states, "only on rare occasions does an or transaction give rise to an extraordinary item". In Paragraph 14, the IAS 8 (Revised) metively limits extraordinary items into expropriation of assets and natural disasters. Other such as litigation settlements and disposals of plant, property and equipment, which used be classified as extraordinary items, are now re-classified as abnormal or exceptional items, form part of the operating profit figure. According to Choo and Peter (1998), the restricted definition of extraordinary items in IAS 8 (Revised) has effectively abolished extraordinary items the income statement.

In Malaysia, the IASC's revised standard on extraordinary items, IAS 8 (Revised) was adopted in 1997 as SI 8 (Revised) to replace the existing standard on the treatment of extraordinary items

in financial statements, the SI 8. Subsequently, in 1999 the SI 8 (Revised) was adopted by the Malaysian Accounting Standard Board (MASB) and known as MASB standard no.3 (MASB 3). Both the SI 8 (Revised) and MASB 3 were made effective for financial statements commencing on or after 1st January 1997 and 1st July 1999 respectively. Basically, there is no significant difference between the SI 8 (Revised) and MASB 3 since most of the content in MASB 3 is merely an adoption of IAS 8 (Revised).

MASB 3 states, "extraordinary items arise from an event that possesses a high degree of abnormality that is clearly distinct from the ordinary activities of the enterprise and not expected to recur in the foreseeable future". For example, losses sustained as a result of a typhoon would normally qualify as an extraordinary item unless it is of a scale that could be considered a natural disaster. In addition, the standard also specifies certain items that are normally accounted for as extraordinary items under IAS 8, such as a litigation settlement and the disposal of land to be accounted for as 'exceptional' items and included in the determination of net income (Para 16 and 18).

Based on these background, the first issue in this study is to empirically examine whether the introduction and the adoption of the newly revised standards on extraordinary items in Malaysia really has significantly changed the way of reporting these items in the financial statements. In other words, are there any changes or reduction in the number of incidence of the reported extraordinary items before and after the adoption of the new standard, SI 8 (revised)? If there is no change in the reporting of extraordinary items, there may be a possibility that the new standard is still not being put into practice by Malaysian companies, as has happened in Hong Kong (Lynn and McGuinness, 1995) and Singapore (Choo and Peter, 1998).

Lynn and McGuinness (1995) reported that there was a rather "liberal" usage of extraordinaritems in Hong Kong even after the adoption of the new revised standard, which had similar recommendations to that of SI 8 (revised). The study concluded that in Hong Kong, many companied did not welcome the implementation of the restricted usage of extraordinary items. Some firms responses to the new standard were so adverse that even the threat of audit qualifications could not convince them to comply with the re-defined extraordinary items rules. From their research it is apparent that the introduction of the new accounting standard in Hong Kong was not effective

Similarly, Choo and Peter (1998) reported that in Singapore, the adoption of Provisional Statement of Accounting Standard (PAS) 19 in 1994 to restrict the usage of extraordinary items was not effective. The restricted definition of extraordinary items in the standard had been met with considerable objection from the business community. As a result, the accounting standard setting body in Singapore withdrew the standard in 1995.

being used as a tool in income smoothing. Previous literatures provide evidence that the street items have been used as a device to smooth a company's reported income. In the Barnea et al. (1976) confirmed that extraordinary items were used in classificatory. They suggested management classified items, which potentially could be labelled as to dampen the fluctuation of income before extraordinary items over time. This supported by Craig and Walsh (1989), who examined the practice of reporting extraordinary. Australian listed companies. Craig and Walsh (1989) concluded, "there is evidence that the straordinary items adjustments to indulge the profit smoothing, creative accounting practices."

British companies by Beattie et. al (1994). The study found that smoothing behaviour stively associated with earnings variability and when managers of companies have share Conversely, studies conducted in Hong Kong and Singapore provided different results.

and McGuinness (1995) and Choo and Peter (1998) found that extraordinary items were not used as an instrument in income smoothing in Hong Kong and Singapore respectively.

The from that, this study extends further to answer the question of whether the issue surrounding modinary items is really important for the investors, or whether the flexibility and choices of modified method just create 'noise' in the security market. One of the possibilities is to examine the market perceives extraordinary items as an important variable in the determination company's value. In other words, this study investigates whether the extraordinary items are in income statements have been taken into consideration by investors when valuing the price of the firms.

THEORETICAL FRAMEWORK

The positive accounting theory assumes that agents are rational individuals who are concern furthering their own self-interest. Consistent with this, it is assumed that the motivating influencing managers' action is the maximization of their utility. In other words, managers take action that will consequently increase their salaries, bonuses and other benefits. By moothing income levels, managers can generate a less volatile reported income pattern, compared the real income pattern. With the lower volatility of income, market's perception of default risk be lower. The low perceived default risk would consequently increase the firm's value and approve the assessment of managers' performance. The empirical evidences proved that share these are influenced by a company's reported profit in relation to market expectations, (Cornell

and Landsman, 1989). Managers would be concerned if the reported profits are less than the market expectation because lower reported profit would result in lower share prices (e.g. Ball and Brown, 1969). In this situation, the managers would be motivated to manipulate reported profits to bring them closer to market expectations. Thus, there is a possibility that managers may engage in income smoothing practices in order to satisfy the shareholders, which in turn increases the firm's value. This can be done by manipulating certain accounting items that are subject to their discretion.

3. HYPOTHESES DEVELOPMENT

This section focuses on the development of three hypotheses that are used in this study. The areas of interest revolve around the issues of extraordinary items, including the effects of the adoption of new standards on extraordinary items, the usage of extraordinary items in income smoothing and market perception towards extraordinary items in valuing a firm's equity.

Hypothesis 1

The implementation of new accounting standards is one of the means to overcome the income smoothing practice. According to Naser (1993), the existence of a classificatory choice in accounting practice creates a loophole, which allows the companies to manipulate accounting numbers particularly the reported earnings. Therefore, the adoption of the new standards may reduce the manipulation of extraordinary items in smoothing the profit (Abdullah and Ku Ismail, 2000).

Apart from this, it is important to review the changes in reported extraordinary items, before and after the adoption of the new standards. Any significant change in the reported extraordinary items of these two periods will give signal that may support further analysis of extraordinary items usage in income smoothing. To test whether there is a significant difference between the reported extraordinary items before and after the adoption of the new standards, the following hypothesis has been developed:

H₁: There is a significant difference between the incidence of extraordinary items during the period before and after the adoption of the new standards among Malaysian listed companies.

Hypothesis 2

This hypothesis focuses on income smoothing. The possibility that smoothing occurs is based on the premise that management tries to smooth reported earnings to maximize their self-interest

Peter, 1998). By smoothing income levels, managers can generate a less volatile reported mem, compared to the real earning pattern. With the lower volatility of earnings, the exception of default risk will be lower. The low perceived default risk would consequently the firm's value and improve the assessment of managers' performance. Other than managers, as also prefer a smoothed income if the firm's value is assessed higher. Moreover, a smooth income stream is usually considered as having greater growth potential, which there share prices. Thus, Choo and Peter (1998) argue that shareholders would have to disregard the income smoothing behaviour of managers, and favour the choice of accounting practice that permits such behaviour. In this case, the 'flexible' accounting that arisen due to the ambiguous definition of extraordinary items.

tensactions such as losses from sales of assets or other expenses as extraordinary to the operating earnings to the desired level. In contrast, according to Craig and Walsh and Choo and Peter (1998), during a period of high operating earnings, management may unusual gains as extraordinary to lower the operating earnings again to the desired level.

1935) argues that managers may also choose to smooth reported earnings in order to maximise the second of the desired level.

1935 This would be likely to occur when the managers' bonus schemes have upper and bounds. Furthermore, managers may also smooth income to minimise their tax exposure bonuses (Choo and Peter, 1998).

the occurrence of income smoothing which also reduces the volatility of reported earnings, used by Choo and Peter (1998) is adopted. Profit and volatility of earnings (which is by the coefficient of variation) before and after extraordinary items are compared. Therefore, which is second hypothesis, in alternative form, is:

H₂ Companies use EI to smooth income and as a result there is a significant difference in profit and volatility of earnings before and after EI.

Emothesis 3

Managers tend to decrease the volatility of reported earnings so that their performance appears than what it should be. Their actions to smooth income using the classificatory choice of the

attention to extraordinary items although the latter form part of the enterprise's performance for the period (Choo and Peter, 1998). To empirically test whether the investors or the market ignore the existence of extraordinary items, or take into consideration the value of extraordinary items when valuing firms, the following hypothesis has been developed.

H₃: The investors take into consideration the extraordinary items reported in financial statements when valuing a firm's value.

4. RESEARCH METHOD

4.1 Sample Selection

Generally, this study was conducted on companies listed in the main board of the Kuala Lumpur Stock Exchange. The population comprised of all companies listed on the main board existing in 1999. To examine the impact of the adoption of the new standards on extraordinary items, manipulation of extraordinary items to smooth income, and investors' perception towards extraordinary items when making valuation, financial statements for six accounting periods were used. Since the new standard was made effective on 1st January 1997, this study examined the reporting of extraordinary items in the financial statements during the period of three years before and three years after the date. Specifically, the period under study was from the year 1994 to 1999. According to Copelant (1968) a four-to-six year time horizon is adequate to reduce classification error.

This study excluded all companies that are classified under the finance sector of the Kuala-Lumpur Stock Exchange because of their unique features and business activities. Apart from this companies that had been de-listed during the studied period were also excluded. Companies that started to be listed later than the year 1994 had not been included in the population as well. This was to ensure that the sample selected from the population comprised public listed companies that existed throughout the period understudy.

The Annual Corporate Handbook (Malaysia), the published annual reports and annual reports available from the World Wide Web at http://www.klse.com.my and http://www.klse-ris.com.mwere assessed for data collection. Information gathered from both, the Annual Corporate Handbook (Malaysia) and the KLSE websites was used to identify companies listed on the main board of the Kuala Lumpur Stock Exchange from 1994 to 1999, which disclosed extraordinary items in the annual reports.

Consistent with the 'incidental' sampling method used by Craig and Walsh (1989), Demsey al. (1993), Beattie et al. (1994), Choo and Peter (1998) and Abdullah and Ku Ismail (2000), on

that met specified criteria were included in the sample. For this purpose, only companies and sed at least once extraordinary items within the time frame, were included in the maddition to this, the sample did not include: (a) companies with missing data, (b) companies extraordinary items or with immaterial extraordinary items (less than RM1000) that were listed after 1 January 1994 and (d) companies that had been de-listed extraordinary study (during the period starting 1 January 1994 to 31 December 1999).

sample used in the research conducted by Craig and Walsh (1991) was 84, Dempsey obtained a final sample of 248 firms, 163 firms in Beattie et al.'s (1994) study and study by Abdullah and Ku Ismail (2000). Table 1 shows the results of the incidental conducted. From the population of 474 companies, only 226 companies remained as the after considering the criteria discussed before.

Table 1
The Sample Selection

Population (1999)	474
Exclude	CONTRACTOR OF STREET
Finance Sector	62
De-listed (after 1 Jan 1994) or	127
Listed before 1 Jan 1994)	entimois in
Immaterial or No Extraordinary items	52
Missing data	7
Final Sample	226

-2 Statistical Analysis

As mentioned earlier, the first hypothesis focuses on the descriptive part of the reported mordinary items included in the financial statements of Malaysian listed companies. For this the data has been divided into two periods, as follows: (a) from the year 1994 to 1996, mely the period 'before the adoption'; and (b) from the year 1997 to 1999, namely the period the adoption'. This hypothesis tried to detect any changes in the number of incidence of the extraordinary items during the two periods. To test the hypothesis, a two tailed t-test was reducted on the reported of extraordinary gains and losses for the two periods.

The second hypothesis is associated with income smoothing. To see whether management used extraordinary items disclosure as an instrument to smooth income, two types of statistical

tests were performed. The tests were similar to the ones used by Lynn and McGuinness (1995). Choo and Peter (1998) and Abdullah and Ku Ismail (2000). Firstly, a two-tailed paired t-test was conducted on the difference between profit before and after extraordinary items to see whether there was a statistically significant difference between profit before and after extraordinary items. Secondly, the coefficient of variation (CV) for earnings before and after extraordinary items was compared across six years of available earnings data for the sample companies. This measure which is the ratio of standard deviation of earnings to mean earnings, captures the volatility of earnings for a given mean ringgit amount of earnings. If CV of earnings after extraordinary adjustments is significantly lower than CV of earnings before extraordinary items, it implies that extraordinary items are used to facilitate income smoothing. The one-tail test on different coefficient of variation (CV) for earnings before and after extraordinary items was also conducted.

The third hypothesis is concerned with the question of whether the market or investors have taken into account the reported extraordinary items when valuing a firm. For this hypothesis, a multivariate linear regression was conducted using the modified income statement model of market value predictions developed earlier, which was as follows:

 $MVE_{jt} = \beta_o + \beta_I PAEI_{jt} - \beta_2 EI_{jt} + e_{jt}$

Where:

MVE, = Market value of shareholders' equity of firm j at year t

PAEI, = Profit after extraordinary items of firm j at year t

EI. = Extraordinary items of firm j at year t

 $e_{ii} = Error$

The regression was conducted separately for each year under study. If β_1 is significant, it implies that the investors perceive a firm's profit after extraordinary items when valuing the firm. On the other hand, if β_2 is significant, it implies that investors take into consideration the value extraordinary items when valuing firms.

Since extraordinary items have both positive and negative values, which refer to extraordinary gains and extraordinary losses respectively, another regression equation was developed to the whether a different sign or direction of extraordinary items had an effect on the market value shareholders equity. A new variable was added to the original basic model used in this study which was the dummy variable for the direction of extraordinary items. If the reported extraordinary items were positive, the value for this dummy variable was 1. On the other hand, if the extraordinary items were negative, the given value for the dummy variable was 0. The new equation is a follows:

$$= \beta_0 + \beta_1 PAEI_{it} + \beta_2 EI_{it} + \beta_3 DUMMY_{it} + e_{jt}$$

- = Market value of shareholders' equity in firm j at year t,
- = Profit after extraordinary items of firm j at year t,
- = Extraordinary items of firm j at year t,
- = Direction of extraordinary items of firm j at year t

The coefficient of the dummy variable, which is β_3 is significant, this implies that the direction that the direction items had some effect to the value of firms' equity. On the other hand, if the control is not significant, this would indicate that investors did not take into account the extraordinary items. In other words, it did not matter to them whether the extraordinary gains or losses.

we could foresee one potential econometric problem when using the above model as previous researchers such as in Landsman (1986), Harris and Ohlson (1987), Barth (1991), Gopalakrishnan and Sugrue (1993), McCarthy and Schneider (1995), Jennings and Ibrahim et al. (1999). These problems relate to the procedure for the estimation models of a population regression line provided by the ordinary least squares (OLS). The most common econometric problem when estimating valuation models is the problem scedastic disturbance, which arises from the fact that, large (small) companies tend to large (small) disturbances. If heteroscedasticity is present, then the standard errors are large, resulting in overstated t-statistics. To overcome this problem, White tests are performed the results. White heteroscedasticity adjusted regression equations were produced in each multivariate linear regression performed earlier.

RESULTS

Exchange was 580. Table 2 shows that companies classified under different industries, according to the proportions, reported these items. According to the table, the property sector had been number of reported extraordinary items, with 47 extraordinary losses and 64 extraordinary items.

On the other hand, the sector with the lowest number of reported extraordinary items was the sector. This sector reported only 2 cases of extraordinary losses and an extraordinary gain the six-year period. Extraordinary items are classified as either positive or negative. Positive

cases refer to gains or additions to profits while negative cases refer to losses or deductions from profits. Table 2 shows that out of 580 extraordinary items reported during the six-year period only 226 items or 38.97% were extraordinary losses. On the other hand, extraordinary gains reported during the period amounted to 354, which was 61.03% of the total extraordinary items. This shows that the number of extraordinary gains reported was greater compared to extraordinary losses. This is in contrast with the findings in a research done by Dempsey et al. (1993), which revealed that managers showed a propensity to report losses as extraordinary items and gains as part of ordinary income.

There were only 266 companies that reported extraordinary items from 1994 to 1999. From the amount, 73 companies reported extraordinary items once, 91 companies reported the items twice and 86 companies reported them three times during the period. From the year 1994 to 1999 only 13 companies reported extraordinary items four times, while 3 companies reported the items 5 times. None of the companies reported extraordinary items for six consecutive years.

Table 2
Reported Extraordinary Items by Industries

and of all thought and an arrangement	Dire	ction	
INDUSTRY	Loss	Gain	Total
Building Material	27	27	54
Construction	22	25	47
Consumer Product	17	29	46
Food, Beverages & Tobacco	9	13	22
Gaming	6	9	15
Hotels	3	3	6
Industrial Products	32	34	66
Investment Holding	9	25	34
Mining	3	16	19
Plantation	14	59	73
Property	47	64	111
Publishing & Media	5	4	9
Retail	2	1	3
Securities & Investment	6	6	12
Trading & Services	21	32	53
Transportation	3	7	10
Total	226	354	580

ES IN THE REPORTED EXTRAORDINARY ITEMS

the number of reported extraordinary items increased from the year 1994 to 1995.

The decreased from 1995 to 1999. This is shown in Table 3. In 1994, there were 79 losses and 119 extraordinary gains, which made up a total of 198. The numbers 74 and increased to 127, respectively for the year 1995. In 1996, there were fewer extraordinary items where both numbers of extraordinary losses and gains decreased correspondingly. The year 1997 evidenced a major drop in the number of reported terms. Only 15 extraordinary losses and 23 extraordinary gains were reported. This pear 1993 cases of extraordinary losses and 2 cases of extraordinary gains reported in the year 1999.

number of reported extraordinary items from 1994 till 1996 was 537, while the total the extraordinary items reported from 1997 to 1999 was 43. Therefore, it is obvious number of reported extraordinary items during the period before the adoption of the was greater than the amount of extraordinary items reported during the period after of the new standard. This means that hypothesis 1 is accepted since there is a significant between the incidence of extraordinary items during the period before and after the most the new standards among Malaysian listed companies.

Table 3
Reported Extraordinary Items Between Periods

Period		Direction					he sit with
	Year	Loss	t-value (p-value)	Gain	t-value (p-value)	Total	t-value (p-value)
	1994	79	sime lawy	119	dPania Nangi	198	AT TO TIME
Per Adoption	1995	74	Bullett Grant	127	Districtes little	201	il fruitori
non-i ad	1996	55	7.340	83	6.579	138	6.939
the state of the	1997	15	(0.00)	23	(0.00)	38	(0.00)
Mass Adoption	1998	3	16 766 150	2	1 - U- anw sul	5	otroba sed
	1999	0	thing by mat	0	in longitude	0	SERVICE OF

These findings are consistent with the comments made by Choo and Peter (1998), which claimed the narrowed definition of extraordinary items has abolished the items from the firm's income the number. This can be seen clearly by the significant drop in the number of extraordinary items the period of adoption to the extent that it became nil in 1999.

EXTRAORDINARY ITEMS AND INCOME SMOOTHING

For the second hypothesis, two types of tests were conducted to identify whether extraordinaritems classificatory choices were being used in smoothing a firm's annual earnings. In the first test of Hypothesis 2, income smoothing was posited to occur when a statistically significant difference was observed between profit before and after extraordinary items at the 5% level of significance. Since the sample size for the year 1998 and 1999 was inadequate (below 30), the tests were conducted for 1994 to 1997 only. The results for the tests are shown in Table 4.

Table 4
Two-Tail Paired T-test Result on Profit Before and After Extraordinary Items

Variable	Year	Mean	N	S.D	t	Df	p-value
PAEI	1994	62128.47	198	131631.27	4.806	197	0.000
PBEI	1994	48231.41	198	121943.35			
PAEI	1995	64544.98	201	96466.44	4.184	200	0.000
PBEI	1995	51053.90	201	78228.72			
PAEI	1996	74104.81	138	165693.72	2.474	137	0.015
PBEI	1996	51971.64	138	117531.94			
PAEI	1997	29708.71	38	141778.57	-0.474	37	0.638**
PBEI	1997	36805.34	38	67596.29			

^{**} After the adoption of the new accounting standard on extraordinary items

The table shows that, the two-tail paired t-tests on the difference between profit before a after extraordinary items for 1994, 1995 and 1996 was significant at 5% level. In all cases, means of PAEI were higher than the means of PBEI for the year before the adoption of the nest standard. This implies that extraordinary items were being used as a tool to smooth income durathe period before the adoption of the new standards. However, the results of the t-test for period after the adoption of the new standards contradicted with the results for the period before the adoption. The t-value was -0.474 for the year 1997, which was insignificant at 5% level. The was contrary to the prediction of income smoothing by management. Thus, in general management and not use extraordinary items disclosure as an instrument to smooth income during the period after the adoption of the new standards.

The second test for this hypothesis compared the coefficient of variation (CV) for earning before and after extraordinary items across five years available earnings data for the sample companies. As discussed earlier, the CV measures the volatility of earnings for a given mean ringgit amount of the coefficient of variation (CV) for earning before and after extraordinary items across five years available earnings data for the sample companies.

before extraordinary items, it implies that extraordinary items are used to facilitate this purpose, the 6-year period was divided into two, period before and period after the new standards. The results are shown in Table 5. For the period before the new standards, the mean CV of earnings after the extraordinary adjustments was lower than the mean CV of earnings before extraordinary items (2.1073). This that extraordinary items were used to facilitate earnings. However, this result was to the set of the extraordinary items were used to facilitate earnings.

Table 5
One-Tail T-test Result of CV Before and After Extraordinary Items

Wariables	Year	Mean	S.D	$T \approx 0$	p-value
CVPBEI	1994-96	2.1073	0.5156	1.25	0.338
CVPAEI	1994-96	1.9497	0.3985		
CVPBEI	1997-99	1.6015	0.3324	-1.463	0.382
CVPAEI	1997-99	3.3455	2.0178		

The results were different for the period after the adoption of the new standards. The mean CV arms after the extraordinary adjustments (3.3455) was higher than the mean CV of earnings extraordinary items (1.6015), indicating that extraordinary items were not being used to the earnings. Similarly, this result is insignificant at 5% level. From both tests, there is that extraordinary items were being used as an instrument of income smoothing during before the adoption of the new standards. Thus, hypothesis 2 that states that companies that of the period before the adoption of the new standards. Thus, hypothesis 2 that states that companies the period before the adoption of the new standards. Thus, hypothesis 2 that states that companies the period volatility of earnings before and after extraordinary items.

TRAORDINARY ITEMS AND MARKET VALUE

third hypothesis concerns the question of whether market perceived the existence of mardinary items in the financial statements when valuing a firm. To answer the third hypothesis, models had been used and the results are illustrated in Tables 6 to Table 8.

Basic Model

Empirical analysis for the third hypothesis was based on the basic market value and net income which was introduced by Barth et al. (1992). This income statement model was modified

for the purpose of this study by decomposing net income into profit after extraordinary item (PAEI) and extraordinary items (EI). The model tested in this study was:

$$MVE_{jt} = \beta_0 + \beta_1 PAEI_{jt} + \beta_2 EI_{jt} + e_{jt}$$

Table 6
Market Value Predictions (The Basic Model)

Predicted Sign	β ₀ ?	β ₁ +	β_2	R ²	N
1994 OLS-t	326874*** 4.811	17.074*** 34.123	-13.817*** -8.535	0.859	198
1995 OLS-t	79109 0.989	20.176*** 23.506	-21.320*** -11.802	0.740	201
1996 OLS-t	555385*** 4.214	14.632*** 14.307	-14.363*** -8.907	0.606	138
1997 OLS-t	392045*** 3.791	13.175*** 8.682	-17.043*** -7.315	0.691	38

Notes: The table indicates significance at $1\%\ (^{***})$

Model (Basic): $MVE_{jt} = \beta_0 + \beta_1 PAEI_j + \beta_2 EI_j + e_{jt}$

The results of this analysis are reported in Table 6. The table shows that the coefficients PAEI were significant at 1% confidence level. This result implies that the investor considered PAEI in valuing the firm's value during the four-year period. The coefficients also showed the PAEI was positively related to the market value of equity. For extraordinary items, the coefficient of extraordinary items for the four years were significant at 1% confidence level. This implies that the investor considered extraordinary items in determining the value of the firms. The coefficient also showed that the value of the firms has negative relation with extraordinary items.

Direction of Extraordinary Items

To overcome the issue of whether extraordinary items direction which was positive and negative and effects on the market value of shareholders equity, a new variable was added to the original model used in this study. The basic model had been extended to include a dummy variable. In dummy variable stood for the direction of extraordinary items, which were divided into positive (extraordinary gains) and negative (extraordinary losses). Extraordinary gains possessed a value of 1, while extraordinary losses possessed a value of 0. The new extended model is as follows:

$$MVE_{jt} = \beta_0 + \beta_1 PAEIt_j + \beta_2 EI_{jt} + \beta_3 DUMMY_{jt} + e_{jt}$$

wariable included in this new model could identify whether the direction of terms affected the investors when valuing a company. If the coefficient for the dummy, then this implied that the direction of extraordinary items was important for when valuing the company. The results generated using this model are shown in

showed that the coefficients were not significant at 5% confidence level during the period. This implied that the investor ignored the sign of extraordinary items in valuing throughout the studied period. In other words, the direction of extraordinary items was not to the investors. On the other hand, for extraordinary items, the coefficients (β_2) throat at 1% confidence level. This implied that the investor considered extraordinary determining the value of the firms regardless of the direction of the extraordinary

Table 7
Market Value Predictions (Dummy Variable Included)

Predicted Sign	β ₀ ?	β ₁ +	β ₂	β_3 ?	R ²	N
1994 OLS-t	304250*** 3.111	17.057*** 33.817	-14.000*** -8.146	43656 0.322	0.859	198
1995 OLS-t	-22667 -0.195	20.167*** 23.582	-21.897*** -11.731	174324 1.208	0.742	201
1996 OLS-t	583459*** 3.012	14.653*** 14.203	-14.315*** -8.749	-50978 -0.198	0.606	138
1997 OLS-t	295606** 1.983	12.919*** 8.346	-17.050*** -7.298	171836 0.901	0.698	38

The table indicates significance at 1% (***) and 5%(**) levels.

Model (Extended): $MVE_{ji} = \beta_0 + \beta_1 PAEI_{ji} + \beta_2 EI_{ji} + \beta_3 DUMMY_{ji} + e_{ji}$

Memeroscedasticity Issue

Die common econometric problem that often arises when conducting a cross-sectional analysis be beteroscedasticity problem. According to Ibrahim *et al.* (2001), one of the major econometric below when estimating cross-sectional valuation models is the problem of heteroscedastic between that appears from the fact that large (small) firms tend to produce large (small) surpances.

If heteroscedasticity is present, then the usual OLS estimators, although unbiased, no longer exhibit minimum variance among all linear unbiased estimators (Gujarati, 1995). In short, the are no longer the best linear unbiased estimator. To overcome the heteroscedasticity problem, procedure established by White (1980) was carried out. This procedure, which is known as the heteroscedasticity-consistent covariance matrix estimators (HCCME), produces consistent estimator of the variances and covariances of OLS estimators even if there is heteroscedasticity problem.

Table 8 lists the summary statistics from the basic regression models that were based on White heteroscedasticity adjusted standard errors. The table shows different t-values, compared to the ordinary least squares results reported earlier. However, the overall results were consistent with the previous results, which the coefficients of extraordinary items for the four years were significant 1% confidence level. This implies that the investor considered extraordinary items in determining the value of the firms. Likewise, the coefficient had negative values suggesting that the great the amount of extraordinary items, the lower the value of the firms regardless the direction of the extraordinary items.

Table 8
Market Value Predictions – The Basic Model
(White's Heteroscedasticity Adjusted Standard Error's)

Predicted Sign	β ₀ ?	β ₁ +	β ₂	R ²	N
1994 White-t	326874.100*** 5.933	17.074*** 12.919	-13.817*** - 6.230	0.859	198
1995 White-t	79108.700 0.860	20.176*** 6.902	-21.320*** - 4.916	0.740	201
1996 White-t	555384.800** 1.762	14.632*** 2.744	-14.363*** - 2.415	0.606	138
1997 White-t	392044.600*** 3.931	13.175*** 7.817	-17.043*** - 6.645	0.691	38

Notes: The table indicates significance at 1% (***) and 5%(**) levels.

Model: $MVE_{it} = \beta_0 + \beta_1 PAEI_i + \beta_2 EI_i + e_{jt}$

SUMMARY AND CONCLUSIONS

The purpose of this research was to increase the general understanding on the issues regard the reporting of extraordinary items. Specifically, the goal of this study was to determine whether of new standards on extraordinary items had effects on the incidence of extraordinary months of the financial statements of Malaysian listed companies, to examine whether items was being used as a tool in income smoothing and to identify whether investors consideration the reported extraordinary items when valuing firms.

the adoption of the new standards. The narrowed definition of extraordinary items has the use of these items as well as reduced the opportunity of using extraordinary items are being strument to smooth income. The evidence shows that extraordinary items are being strument to smooth income during the period before the adoption of the new standards. The extraordinary items are not being used in the statistical tests also reveal that extraordinary items are not being used in mothing during the succeeding period. This implies that the standards setting bodies in the country. After the adoption of the new standard, it was no more possible for the memory and the country. After the adoption of the new standard, it was no more possible for the memory and the definition of extraordinary items, the new revised standard drives are preparers to produce more useful and reliable financial statements. As a consequence, the making economic decisions.

manipulating the reported income, the statistical evidence gathered from multivariate demonstrate that extraordinary items are value-relevance for investors in valuing a This implies that investors took into account the extraordinary items even though it below the line'. In other words, the market will not be misled by the firms' smoothed they also consider the firm's extraordinary items when making decisions.

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