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Abstract

This paper examines issues related to the reporting of extraordinary items in the financial statements of Malaysian companies. The first issue concerns the change of accounting standards on extraordinary items, which has limited the scope of extraordinary items. It is found that there are significant changes on the incidence of reported extraordinary items during the period after the adoption of the new standard. The findings supported the argument that the new standards on extraordinary items had consequently reduce significantly these items from financial statements. This paper hypothesizes that extraordinary items classification choice is a means used by companies to smooth income. Two types of statistical tests performed have confirmed the proposition that the disclosure of extraordinary items is subject to this type of manipulation during the period before the adoption of the new standard. Although it is proved that the broad definition of extraordinary items allows companies to manipulate income, evidence gathered from multivariate regressions demonstrates that extraordinary items are of value-relevance for investors in valuing a firm's equity. Thus, investors take into account the extraordinary items even though it is disclosed 'below the line'.

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1.0 Introduction

Financial statements are prepared in order to communicate economic measurements and information about the resources and performance of a reporting entity. One could argue that the purpose of financial statements is to provide information about the financial position, performance and cash flow of an enterprise. It also indicates 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 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 these statements to "window-dress" their organizations by taking advantage of the loopholes in accounting standards. Although creative accounting is not against the law but, 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 their prescribed objectives.

This research examines one of the items in the financial statements that has been commonly subjected to creative accounting, it 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 not 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 pre-tax income, and more importantly, from its earnings per share record (Naser, 1993). This is because earnings per share are 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) which are widely used by investors, also depends 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 forms a 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 neither full nor fair. Therefore, what constitutes as extraordinary items is an important question that should be taken seriously by the accounting professionals.

To overcome the problem of creative accounting particularly the abuse of extraordinary items in the financial statements, accounting standard setting bodies have taken steps to revise the accounting standards on the reporting of extraordinary items by redefining what constitutes extraordinary items. Most standard setting bodies provide a narrow definition of the items. According to Abdullah and Ku Ismail (2000), the adoption of the revised standard was expected to curb the abuse in the reporting of extraordinary items. A study by Naser (1993), recommended that a stringent accounting standard was the most agreed solution to eliminate the use of creative accounting.

In 1992, the IASC amended the International Accounting Standard (IAS) 8 and issued a revised accounting standard on extraordinary items IAS 8 (Revised), *Net Profit or Loss for the Period, Fundamental Error and Changes in Accounting Policies*, which covered the reporting of extraordinary items, among other things. Under the revised standard, extraordinary items were defined as

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

The word “*clearly*” was added to reduce the degree of generality in the original definition of extraordinary 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 event or transaction give rise to an extraordinary item". In Paragraph 14, the IAS 8 (Revised) effectively limits extraordinary items into expropriation of assets and natural disasters. Other events, such as litigation settlements and disposals of plant, property and equipment, which used to be classified as extraordinary items, are now re-classified as abnormal or exceptional items, which 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 from 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 is known as MASB standard no.3 (MASB 3). Both the SI 8 (Revised) and MASB 3 were made effective for the 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 this background, the first objective in this study is to empirically examine whether the introduction and the adoption of the newly revised standards of extraordinary items in Malaysia has really significantly changed the way of reporting these items in the financial statement. In other words, there is change or reduction in the number of incidences of the reported extraordinary items before and after the adoption of the new standards, i.e. 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 extraordinary items 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 companies did not welcome the implementation of the restricted usage of extraordinary items. The response of the firms to the new standard was so incorrect that even the threat of audit qualifications could not convince them to comply with the re-defined extraordinary items rules. From this research, it is apparent that the introduction of the new accounting standards 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 was met with considerable objection from the business community. As a result, the accounting standard setting body in Singapore withdrew the standard in 1995.

In addition to the above issue, this research also focuses on determining, whether extraordinary items are being used as a tool in income smoothing. Previous literature provides evidence that extraordinary items have been used as a device to smooth a company's reported income. In the United States, Barnea *et al.* (1976) confirmed that extraordinary items were used in classificatory smoothing. They suggested management classified items, which potentially could be labelled as extraordinary to dampen the fluctuation of income before extraordinary items over time. This study is supported by Craig and Walsh (1989), who examined the practice of reporting extraordinary items in Australian listed companies. Craig and Walsh (1989) concluded, "there is evidence that certain classes of larger companies have used material extraordinary items adjustments to indulge in manipulative, profit smoothing, creative accounting practices."

Further evidence of using extraordinary items as a smoothing instrument was provided in a study of British companies by Beattie *et. al* (1994). The study found that smoothing behaviour was positively associated with earnings variability and when managers of companies have share options. Conversely, studies conducted in Hong Kong and Singapore provided different results. Lynn and McGuinness (1995) and Choo and Peter (1998) found that extraordinary items were not being used as an instrument in income smoothing in Hong Kong and Singapore respectively.

This study also examines whether the issue surrounding extraordinary items is really important for the investors, or whether the flexibility and choices of accounting methods just create 'noise' in the security market. One of the

possibilities is to examine whether the market perceives extraordinary items as an important variable in the determination of a company's value. In other words, this study investigates whether the extraordinary items reported in income statements have been taken into consideration by investors when evaluating the share price of the firm.

2.0 Theoretical Framework

The positive accounting theory assumes that, agents are rational individuals who are concerned with promoting their own self-interest. Consistent with this, it is assumed that the motivating factor influencing a manager's action is the maximization of their utility. In other words, managers will take action that will consequently increase their salaries, bonuses and other benefits. By smoothing income levels, managers can generate a less volatile income pattern, compared to the real income pattern. With the lower volatility of income, market's perception of default risk will be lower. The low perceived default risk would consequently increase the firm's value and improve the assessment of manager's performance. The empirical evidences proved that share prices 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 expectations 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.

3.0 Hypotheses Development

This section focuses on the development of three hypotheses that are used in this study. The area of interest revolves around the issue of extraordinary items, including the effects of the adoption of new standards of 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-interests (Choo and Peter, 1998). By smoothing income levels, managers can generate a less volatile reported earning pattern, compared to the real earning pattern. With the lower volatility of earnings, the market's perception of default risk will be lower. The perceived low default risk would consequently increase the firm's value and improve the assessment of managers' performance. Other than managers, shareholders also prefer a smoothed income so that if the firm's value is assessed higher. Moreover, a firm with a smooth income stream is usually considered as having greater growth potential, which leads to higher share prices. Thus, Choo and Peter (1998) argue that shareholders would have incentive to disregard the income smoothing behaviour of managers, and favour the choice of 'flexible' accounting practice that permits such behaviour. In this case, the 'flexible' accounting practice has arisen due to the ambiguous definition of extraordinary items.

Particularly, during a period of low operating earnings, management may have the incentive to classify transactions such as losses from sales of assets or other expenses as extraordinary to increase the operating earnings to the desired level. In contrast, according to Craig and Walsh (1989) and Choo and Peter (1998), during a period of high operating earnings, management may classify unusual gains as extraordinary to lower the operating earnings again to the desired level. Healy (1985) argues that managers may also choose to smooth reported earnings in order to maximize their bonus. This is likely to occur when the manager's bonus schemes have upper and lower bounds. Furthermore, managers may also smooth income to minimise their tax exposure from such bonuses (Choo and Peter, 1998).

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

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

Hypothesis 3

Managers tend to decrease the volatility of reported earnings so that their performance appears better than what it should be. Their actions to smooth income using the classificatory choice of extraordinary items have resulted in misleading accounting numbers, particularly the reported annual earnings in the financial statements. It is widely argued that as a result of this, investors do not get the true picture of a firm's position and performance during the particular accounting period. This is because the investors tend to concentrate on net profit after tax and pay little or no 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.

4.0 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 sample 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 Copeland (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 study period were also excluded. Companies that were listed later than the year 1994 have 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 under study.

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.my> were 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 their annual reports.

Consistent with the 'incidental' sampling method used by Craig and Walsh (1989), Dempsey *et al.* (1993), Beattie *et al.* (1994), Choo and Peter (1998) and Abdullah and Ku Ismail (2000), only companies that met specified criteria were included in the sample. For this purpose, only companies which disclosed at least one time extraordinary items within the time frame, were included in the sample. In addition to this, the sample did not include: (a) companies with missing data, (b) companies with no reported extraordinary items or with immaterial extraordinary items (less than RM1000) (c) companies that were listed after 1 January 1994 and (d) companies that had been de-listed during the period under study (during the period starting 1 January 1994 to 31 December 1999).

The final sample used in the research conducted by Craig and Walsh (1991) was 84, Dempsey *et al.* (1993) obtained a final sample of 248 firms, 163 firms in Beattie *et al.*'s (1994) study and 244 in the study by Abdullah and Ku Ismail (2000). Table 1 shows the results of the incidental sampling conducted. From the population of 474 companies, only 226 companies remained in the final sample, after using the criteria discussed above.

Table 1 The Sample Selection

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

4.2 Statistical Analysis

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

The second hypothesis is associated with income smoothing. To see whether management has used extraordinary items disclosure as an instrument to smooth income, two types of statistical tests were performed. These 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 6 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:

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

Where:

- MVE_{jt} = Market value of shareholders' equity of firm j at year t
 $PAEI_{jt}$ = Profit after extraordinary items of firm j at year t
 EI_{jt} = Extraordinary items of firm j at year t
 e_{jt} = 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 of extraordinary items when valuing the firm.

Since extraordinary items have both positive and negative values, which refer to extraordinary gains and extraordinary losses respectively, another regression equation was developed to test whether a different sign or direction of extraordinary items had an effect on the market value of 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 as follows:

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

Where

- MVE_{jt} = Market value of shareholders' equity in firm j at year t,
 $PAEI_{jt}$ = Profit after extraordinary items of firm j at year t,
 EI_{jt} = Extraordinary items of firm j at year t,
 $DUMMY_{jt}$ = Direction of extraordinary items of firm j at year t

If the coefficient of the dummy variable, which is β_3 is significant, this implies that the direction of extraordinary items had some effect to the value of firm's equity. On the other hand, if the coefficient is not significant, then, this would indicate that investors did not take into account the direction of extraordinary

items. In other words, it did not matter to them whether the extraordinary items were gains or losses.

However, we could foresee one potential econometric problem when using the above model as noted by previous researchers such as in Landsman (1986), Harris and Ohlson (1987), Barth (1991), Shevlin (1991), Gopalakrishnan and Sugrue (1993), McCarthy and Schneider (1995), Jennings *et al.* (1996) and Ibrahim *et al.* (1999). These problems relate to the procedure for the estimation of the parameters of a population regression line provided by the ordinary least squares (OLS) method. The most common econometric problem when estimating valuation models is the problem of heteroscedastic disturbance, which arises from the fact that, large (small) companies tend to produce large (small) disturbances. If heteroscedasticity is present, then the standard errors are understated, resulting in overstated t-statistics. To overcome this problem, White tests are performed to adjust the results. White heteroscedasticity adjusted regression equations were produced in respect to each multivariate linear regression performed earlier.

5.0 Results

The sample obtained during the study revealed that the total number of extraordinary items reported during the period 1994 to 1999 by companies listed on the main board of Kuala Lumpur Stock Exchange was 580. Table 2 shows that companies classified under different industries, with unequal proportions, reported these items. According to the table, the property sector had the highest number of reported extraordinary items, with 47 extraordinary losses and 64 extraordinary gains totaling 111 extraordinary items.

On the other hand, the sector with the lowest number of reported extraordinary items was the retail sector. This sector reported only 2 cases of extraordinary losses and an extraordinary gain during 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 as 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. Out of 266 companies, 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

INDUSTRY	Direction		Total
	Loss	Gain	
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

Changes In The Reported Extraordinary Items

Generally, the number of reported extraordinary items increased from the year 1994 to 1995. However it decreased from 1995 to 1999. This is shown in Table 3. In 1994, there were 79 extraordinary losses and 119 extraordinary gains, which made up a total of 198. The numbers decreased to 74 and increased to 127 for the year 1995. In 1996, there were fewer incidences of extraordinary items when both numbers of extraordinary losses and gains decreased to 55 and 83 correspondingly. The year 1997 evidenced a major drop in the number of reported extraordinary items. Only 15 extraordinary losses and 23 extraordinary gains were reported. This was followed by 3 cases of extraordinary losses and 2 cases of extraordinary gains reported in 1998. No extraordinary item case was reported in the year 1999.

The total number of reported extraordinary items from 1994 till 1996 was 537, while the total number of the extraordinary items reported from 1997 to 1999 was 43. Therefore, it is obvious that the total number of reported extraordinary items before the adoption of the new standards was greater than the amount of extraordinary items reported after the adoption of the new standards. This means that hypothesis 1 is accepted since 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.

Table 3 : Reported Extraordinary Items Between Periods

		Direction					
Period	Year	Loss	t-value (p-value)	Gain	t-value (p-value)	Total	t-value (p-value)
Pre Adoption	1994	79		119		198	
	1995	74		127		201	
	1996	55	7.340	83	6.579	138	6.939
Post Adoption	1997	15	(0.00)	23	(0.00)	38	(0.00)
	1998	3		2		5	
	1999	0		0		0	

These findings are consistent with the comments made by Choo and Peter (1998), which claimed that the narrowed definition of extraordinary items has abolished the items from the firm's income statement. This can be seen clearly by the significant drop in the number of extraordinary items after 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 extraordinary items 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 and after extraordinary items for 1994, 1995 and 1996 was significant at 5% level. In all cases, the means of PAEI was higher than the mean of PBEI for the year before the adoption of the new standard. This implies that extraordinary items were being used as a tool to smooth income before the adoption of the new standards. However, the results of the t-test for the 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. This was contrary to the prediction of income smoothing by management. Thus, in general, management did not use extraordinary items disclosure as an instrument to smooth income after the adoption of the new standards.

The second test for this hypothesis compared the coefficient of variation (CV) for earnings 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 earnings. If CV of earnings after the extraordinary adjustments is significantly lower than CV of earnings before extraordinary items, it implies that extraordinary items are used to facilitate earnings. For this purpose, the 6-year period was divided into two, period before and period after the adoption of the new standards. The results are shown in Table 5. For the period before the adoption of the new standards, the mean CV of earnings after the extraordinary adjustments was 1.9497, which was lower than the mean CV of earnings before extraordinary items (2.1073). This may imply that extraordinary items were used to facilitate earnings. However, this result was insignificant at 5% level.

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

Variables	Year	Mean	S.D	T	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 of earnings after the extraordinary adjustments (3.3455) was higher than the mean CV of earnings before extraordinary items (1.6015), indicating that extraordinary items were not being used to facilitate earnings. Similarly, this result is insignificant at 5% level. From both tests, there is evidence that extraordinary items were being used as an instrument of income smoothing during the period before the adoption of the new standards. Thus, hypothesis 2 which states that companies use extraordinary items to smooth income is accepted, since there is a significant difference in profit and volatility of earnings before and after extraordinary items.

Extraordinary Items And Market Value

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

The Basic Model

Empirical analysis for the third hypothesis was based on the basic market value and net income model, 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 items (PAEI) and extraordinary items (EI). The model tested in this study was:

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

Table 6
Market Value Predictions (The Basic Model)

Predicted Sign	$\beta_0?$	β_1+	β_2-	R ²	N
1994	326874***	17.074***	-13.817***	0.859	198
OLS-t	4.811	34.123	- 8.535		
1995	79109	20.176***	-21.320***	0.740	201
OLS-t	0.989	23.506	-11.802		
1996	555385***	14.632***	-14.363***	0.606	138
OLS-t	4.214	14.307	- 8.907		
1997	392045***	13.175***	-17.043***	0.691	38
OLS-t	3.791	8.682	- 7.315		

Notes: The table indicates significance at 1% (***)

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

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

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

The dummy variable included in this new model could identify whether the direction of extraordinary items affected the investors when valuing a company. If the coefficient for the dummy, β_3 was significant, then this implied that the direction of extraordinary items was important for the investors when valuing the company. The results generated using this model is shown in Table 7.

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

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	- 0.198 138	0.606
1997 OLS-t	295606** 1.983	12.919*** 8.346	- 17.050*** - 7.298	171836 0.901	0.698	38

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

Model (Extended): $MVE_{i,t} = \beta_0 + \beta_1 PAE_{i,t} + \beta_2 EI_{i,t} + \beta_3 DUMMY_{i,t} + e_{i,t}$

Heteroscedasticity Issue

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

If heteroscedasticity is present, then the usual Ordinary Least Square (OLS) estimators, although unbiased, no longer exhibit minimum variance among all linear unbiased estimators (Gujarati, 1995). In short, they are no longer the best linear unbiased estimators. To overcome the heteroscedasticity problem, a procedure established by White (1980) was carried out. This procedure, which is known as the heteroscedasticity-consistent covariance matrix estimators (HCCME), produces consistent estimates 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's 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 indicate that the coefficients of extraordinary items for the four years were significant at 1% level. This implies that the investor considered extraordinary items in determining the value of the firms. Likewise, the coefficients had negative values suggesting that the greater 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: $MVE_{it} = \beta_0 + \beta_1 PAEI_{it} + \beta_2 EI_{it} + e_{it}$

Summary And Conclusions

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

The findings reveal that there is an obvious decrease in the number of incidences of extraordinary items after the adoption of the new standards. The narrowed definition of extraordinary items has limited the use of these items as well as reduced the opportunity of using extraordinary items classificatory choices to smooth income. The evidence shows that extraordinary items are being used as an instrument to smooth income during the period before the adoption of the new standards. On the other hand, the statistical tests also reveal that extraordinary items are not being used in income smoothing during the succeeding period. This implies that the standards setting bodies in Malaysia (MASB) have taken a proper action in reducing the creative and manipulative accounting practices in the country. After the adoption of the new standard, it was no more possible for the financial statement makers to use extraordinary items classificatory choices to smooth a firm's reported income. By limiting the definition of extraordinary items, the new revised standard drives the accounting people to produce more useful and reliable financial statements. As a consequence, the financial statement's users especially the investors have more confidence to rely on the accounting information when making economic decisions.

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

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