บทความวิจัย

Informativeness of Earnings and Board

Characteristics: Evidences from Thailand

Parinda Maneeroj, DBA*

ABSTRACT

The main objective of this papers to investigate whether the characteristics of board of directors affect earn gs informativeness after reform of corporate governance system in Thui capial market, which is one of emerging market. The informativeness of earnings is measured by the relationship between returns and earnings. The dependent variable is cumulative abnormal weekly returns. The independent variable consist of unexpected earnings, educational background of board and a audit committee, board size, CEO duality, independent directors, independent directors' directorship, independent directors' tenure, and audit committee meeting.

ccoding to the evidences, earnings in the year 2004 following the Year of the Governance provide informativeness but those in the year 2000 following the reforms of corporate governance do not. There is no evidence of any variable for the year 2000 impacting earnings informativeness. However, for the year 2004,

* Lecturer, Department of Accountancy, Chulalongkorn Business School, Chulalongkorn University

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educational background of board and of audit committee, CEO duality, independent directors' tender including control variables: managerial ownership and systematic risk have effect on the informativeness of earnings. Moreover, the effect of board characteristics on earnings informativeness is been presented by the control variables.

This paper contributes the line of investigations of the effect of board characteristics on the yrrings informativeness. It provides the effect of educational background of board and of automomittee member, and independent directors' tenure on earnings informativeness. It also ad a up he limited empirical evidences of the effectiveness of board in overseeing the quality of accounts in Thai capital market, which is one of emerging market. Moreover, Thai corporate gov mance regulatory agencies, investors, and listed firms may value the evidences found in this source.

Keywords: Informativeness of Earnings, Director, Audit Committee, Corporate Goornance

บทคัดย่อ

งานวิจัยนี้มีวัตถุประสงค์เพื่อศึกษาว่าลักษณะของคณะราชารบริษัทมีผลต่อคุณค่าของข้อมูลกำไร (Informativeness of Earnings) หลังจากการปฏิรูประบบการกักกิง แลกิจการในตลาดทุนไทยหรือไม่ คุณค่าของข้อมูล กำไรถูกวัดด้วยความสัมพันธ์ระหว่างผลตอบแทนและกำไร ตัว ปรตาม คือ ผลตอบแทนผิดปกติสะสม (Cumulative Abnormal Returns) ตัวแปรอิสระ คือ กำไรที่ไม่คาดหวัง (Unexpected Earnings) การศึกษาของกรรมการใน คณะกรรมการบริษัทและคณะกรรมการตรวจสอบ ขนาคของคณะกรรมการบริษัท ประธานคณะกรรมการไม่เป็น บุคคลเดียวกับทั่วหน้าผู้บริหาร จำนวนกรรมการ 💢 🖘 นวนของบริษัทอื่นที่กรรมการอิสระเป็นกรรมการ ระยะเวลา ในการเป็นกรรมการอิสระ และความถี่ใน กรร ซุมของคณะกรรมการตรวจสอบ ผลการศึกษาพบว่า กำไรในปี พ.ศ. 2547 ซึ่งเป็นปีหลังจากปีแห่งการกำกับ ลูกิจการ (the Year of Corporate Governance) มีคุณค่าของข้อมูล กำไร ส่วนกำไรในปี พ.ศ. 2543 ซึ่งเป็นปี่หลังจากการปฏิรูประบบการกำกับดูแลกิจการในตลาดทุนไทยไม่พบว่ามีคุณค่า ของข้อมูลกำไร ผลการศึกษาไม่พบสามวันเปรอิสระใดที่มีผลต่อคุณค่าของข้อมูลกำไรในปี พ.ศ. 2543 แต่ตัวแปรอิสระ ซึ่งได้แก่การศึกษาของกรรมกา*ก* คุณะกรรมการบริษัทและคณะกรรมการตรวจสอบ ประธานคณะกรรมการไม่เป็น บุคคลเดียวกับหัวหน้าผู้บริหารใน ระยะเวลาในการเป็นกรรมการอิสระ รวมทั้งตัวแปรควบคุม ซึ่งได้แก่ ความเป็น เจ้าของบริษัทของผู้บริท และร่วมการบริษัทและความเสี่ยง มีผลต่อคุณค่าของข้อมูลกำไรในปี พ.ศ. 2547 นอกจากนี้ ยังพบว่า ในปี พ.ศ. > 47 ลักษณะของคณะกรรมการบริษัทมีผลต่อคุณค่าของข้อมูลกำไรดีกว่าในปี พ.ศ. 2543 งานวิจัยนี้มีประโยชน์ใน กรต่อยอดงานวิจัยที่เกี่ยวข้องกับลักษณะของคณะกรรมการบริษัทมีผลต่อคุณค่าของข้อมูลกำไร โดยเฉพาะในว่าทุนแห่งประเทศไทย รวมทั้งหน่วยงานกำกับดูแล ผู้ลงทุนและบริษัทจดทะเบียนสามารถนำผล ของการศึกษานไปใช้ต่อไป

ค์ จำคัญ:) คุณค่าของข้อมูลกำไร กรรมการ กรรมการตรวจสอบ การกำกับดูแลกิจการ

INTRODUCTION

It is widely recognized that accounting information provides investors with valuable data which is vital for investment decisions. Since accounting information generally reflects the performance and financial health of a firm, the quality of this information has been an intensive topic under interests and studies by numerous professional organizations and scholars. Therefore, accurate and reliable information is not only important, but it is also the very essence that investors will encompass their decisions. Without adequate level of confidence on that information, the investors may decide not to invest in the target firms.

The reliability of financial reports can be strengthened by good corporate governance (Chtourou et al., 2001: 3). The board of director is known as the important mechanism of corporate governance to monitor the quality of accounting information provided by the company information provided by the company in financial reports (Vafeas, 2000: 139).

After the financial crisis in 77, corporate governance has become a key focus in hailand. All parties in Thailand, public or vivate, realized that good corporate governance crucial factor for economic reform in the colory. It is believed that good corporate given an enhances the firm's sustainable growth and importantly, it boosts the investor's confidence on the business operation of firm reflective through reliable accounting data (The Stock Exchange of Thailand, 2001).

98, Thai corporate governance system habee significantly reformed. The reforms have

included restructuring and alteration in function of board of directors (World Bank, 2005). At the look of 1999, the Stock Exchange of Thailand requ listed firms to set a new subcolonitted an adult committee, as a part of board of directors to directly take care on the reliability of accounting information. An audit comits given by board of directors the duties to ersee the financial statement reporting poess seasley, 1996: 445). It is said that "The and has made significant progress in proving its corporate governance" (World Bank, 2005: The year 2002 was officially set as the ream of Corporate Governance. The National Con prate Governance Committee was estallime in that year. Six sub-committees have be designated to put efforts for improvement of arious aspects of corporate governance practices.

Since such reforms of corporate governance, empirical studies relating to characteristics of board to oversee the quality of accounting information in Thailand have been rare. Doing research in this scope will provide evidences on the effect of board characteristics in Thailand on accounting information. Furthermore, since Thai stock market is one of the emerging markets, empirical evidences on the effect of board characteristics can provide valuable information to international investors. Finally, the finding on this study may be useful for Thai corporate governance regulatory bodies for future improvements.

Regarding accounting information, earnings are focused because as bottom line on income statement, which reflects the firm's operating results, they are key performance indicator always

used in investment decisions. It is believed that earnings can present firm's ability to pay future dividends (Beaver, 1998: 69). Therefore, their informativeness is very important.

With varying board characteristics, the effect of board to monitor financial reports process and internal control system is likely to differ across firms. And due to its responsibility to monitor the quality of accounting information in financial reports, this paper studies if the characteristics of board have any effects on the informativeness of earnings. Using data from the Stock Exchange of Thailand, it finds evidence relating to the following questions:

- Q.1 Are earnings informative?
- Q.2 Do the characteristics of board affect the informativeness of earnings?
- Q.3 What is the change on the effect of board characteristics on informativeness of earnings between the year (2000) following the reforms of corporagovernance and the year (2004). Nowing the Year of Corporate Governance?

This paper contributes to the accounting literature as following perspectives. First, in the investigation line of the affect of board characteristics on the informativeness of earnings, it provides the effect of some board characteristics, educational background of board and of audit committee members, utside directors' directorship in other firms, any utside directors' tenure, that other related esearch does not. Second, it adds up the time empirical evidences of the effect of board characteristics in overseeing the quality

of accounting information in Thailand, which is believed that they benefit corporate governated studies in one of emerging markets. Finally Thail corporate governance regulatory along the evidences found in this study, both relating to the effect of board characteristics on informativeness of earning and lating to the effect after the year 2002 with has been set as the year to start promotion of Good Corporate Governance, and implements on do further studies for future improvements one related regulations.

LITERATURE REVIEW

1. Returns—Earn gs Relation

Gerea, the studies of returns-earnings are conducted using two methods. the return-earnings relation is examined using the method of event study (e.g., Ball an Brown, 1968; Brown and Kennelly, 1972). By This method, researchers investigate whether the event of earnings announcement convey new information to investors as reflected in change of stock price over a short-term window around the event (Kothari, 2001: 11). Ball and Brown (1968: 161-163, 168-170) conduct both event study and association study. They investigate the usefulness of information contained in accounting income to investors by examining the relationship between unexpected income change (forecast error) and stock return residual (abnormal returns). In the event study, they notice the sign of abnormal returns in the month of earnings announcement and the sign of income forecast error and find that there is a significantly positive relation. For

long-term window relation, the same result is presented.

Second, the return-earnings relation is investigated by using the method of association study (e.g., Board and Walker, 1990; Easton and Harris, 1991). This method examines the relationship between returns and earnings over a long-term window by using an earnings response coefficient (ERC) as a measure of the relationship. Board and Walker (1990: 182-183, 186) study the relation between unexpected accounting earnings and abnormal returns in both intertemporal and cross-sectional variation through 1965 to 1982. The evidences present that there is significant crosssectional and intertemporal variation in the relation between returns and earnings. Furthermore, they find that the intertemporal variation is explained partly by inflation.

2. Literature Review: Board of Directors

Reviewing the related studies, this poer finds seven board characteristics that hould be investigated in this paper. The seven haracteristics are educational background of board and audit committee members, board size, CEO duality, independent directors on board directorship in other firms of independent directors, tenure of independent directors and audit committee meeting.

2.1 Education Background

Background on accounting and/or finance should crucial for effectiveness of board of direct monitor the quality of accounting normation. McMullen and Raghunandan (1996:

80) express a 1993 benchmark study 📝 Rice Waterhouse for the Institute of Internal Auot rs Improving Audit Committee Performance: Works Best that audit commoree Venue expertise in accounting, internacion, ols, and auditing is important for a dit committee effectiveness. They do be coney of firms with financial reporting problems and firms without financial reporting prooms. They find that the firms without the polems tend to have CPAs on audit committee. Itourou et al. (2001: 26) summarize that the firms with audit committee which at least on member has financial expertise are less likely to have earnings management. Consistent with Chtourou et al. (2001), Xie et al. (7002: 253) document that the members of board nd audit committee with corporate or financial background tend to monitor the level of earnings Phanagement.

Since the main duty of audit committee is to review the financial reporting process to ensure that accounting information and financial report are reliable with best quality, the Stock Exchange of Thailand requires that at least one audit committee member must have knowledge, understanding, or experience in accounting or finance.

2.2 Board Size

Jensen (1993: 865) suggests that the board which consists of more than seven or eight members is less likely to effectively work. He informs that board with small size can perform improvably. As board gets increase in size, the problem of coordination incurs. Vafeas (2000: 142,

144) explains that the directors in the large board may ineffectively exchange ideas. He indicates that the directors in a small board, compared to a 14- or-15- member board, have a better circumstance to conduct the detailed discussion of actual financial reporting information. In addition, he recognizes that the relationship between board size and earnings informativeness may also be non-linear. It is explained that "when board sizes are very small, the costs of having insufficient people to monitor management adequately may outweigh the process losses resulting from having a large board" (Vafeas, 2000: 144). Thus, firms need to have an adequate number of directors.

2.3 CEO Duality

Xie et al. (2003: 303) define CEO duality as that CEO also occupies the board chairman position. The board chairman has responsibility in running board meetings, and overseeing the process of appointing and monitoring CEO. The CEO as board chairman has more power and is more lifely make decisions based on his personal interest. The board, therefore, is unable to carry to its duties effectively. Then, the separation of the CEO and board chairman position is very crucial (Jensen, 1993: 866).

Many studies have no round evidence on effectiveness of the separation of the CEO and chairman of board osition on the quality of accounting into mation (Chtourou et al, 2001; Petra, 2004, Xie et al, 2003). Based on univariate regression, Xie et al. (2003: 305) document accruals. Consistent with Xie et al.

(2003), Chtourou et al.(2001: 25) find that the CEO with board chairman position tends to of affect earnings management. This evidence we based on multivariate analysis. Per (2002: 69) shows the evidence that the separation of CEO and the board chairman position doe not improve informativeness of earning

2.4 Independent Members in Board

There are several sturn examining if outside members on board impact on quality of accounting information. Beaver 1966, 463) documents that firms with financial struement fraud have lower proportion of outside members on board than firms without fraud. The researchers, however, do not find the lation between outside members on board and earnings management. Xie et al. (2003: 36) demonstrate that the percentage of outside lirectors is insignificantly related to discretionary accurals.

For the studies of the relation of outside directors with informativeness of earnings, Anderson et al. (2003: 17) find that earnings informativeness is positively related to board independence. However, Vafeas (2000: 157) suggests that the percentage of outside directors is unrelated to the informativeness of earnings. Petra (2002: 79) also finds the evidence consistent with Vafeas (2000)'s.

2.5 Directorship

The performances of outside directors are priced by market (Fama, 1980: 294). Therefore, they have incentives to be effective monitors since being directors of good firms will signal their value to the market (Beasley, 1996: 460). According to this view, the number of outside directorship

held by each outside director serves as a signal of his competence or reputation. Additionally, additional directorship provides the director to acquire knowledge of best practices for board of directors (Chtourou et al., 2001: 14). These suggest that the high number of directorship of outside directors tends to relate to monitoring effectively.

On the other hand, Morck et al. (1988: 307) inform that monitoring the top management requires effort and time. Then, additional outside directorship held by outside directors will reduce time available for monitoring responsibility of each director at a single firm (Beasley, 1996: 461)¹. In this view, the high number of directorships of outside directors tends to reduce the effectiveness of monitoring.

2.6 Tenure

Chtourou et al. (2001: 13, 25) note that having experience on board, outside directors obtain better knowledge of executive directors as well as that of firm. These will help develop compende of monitoring and overseeing firm's rocks of financial reporting effectively. In expination of the relation between outside directors' tenure on board and earnings man gement, they find the evidences supporting the lew. The outside directors' average tenure on board is negatively related to the level of earnings management. Also, Beasley (1906: 45.7)'s evidence is consistent with this view. The finds that as number of years of board service increases, the outside directors'

ability to effectively monitor management for the prevention of financial statement fraud includes. However, Beasley (1996: 460) notes the opposite view that outside directors witl longer voar of service on board tend to be entrended with top management while new directors tend to be independent and watch 100.

2.7 Audit Committee

Meeting helps avan committee to focus on accounting and controlling matters. They can discuss the leafer problems and find out the way to solve them. McNollen and Raghunandan (1996: 80–81) doc meet that audit committees of the firms with financial reporting problems have less likeling to meet frequently. Specifically, "only 200 of addit committees of problem companies ad regularly scheduled meetings three or more times a year. Forty percent of audit committees of companies without financial reporting problems met at least three times annually."

Chtourou et al. (2001: 24) expect that the more the number of audit committee meeting, the less the level of earnings management. But the authors find that the firms with audit committee meeting more than twice a year are likely to manage earnings. They, however, combine meeting variable with audit committee independence variable and find that the firms with audit committee consisted only of independent directors who meet more than two times a year are less likely to manage earnings.

Chtou bu et al. (2001: 35) suggest that "additional directorship may improve effectiveness up to a point but beyond this point, the board is penalized because of the time and effort absorbed by other directorship."

3. SET's Role in the Development of Corporate Governance after Financial Crisis in 1997²

Over the last ten years, the Stock Exchange of Thailand (SET) has continuously supported the development of good corporate governance culture in listed firms. The role of audit committee was under study in 1995, leading to subsequent SET requirement announced in 1998 stating that from 1999 onwards, existence of audit committee is mandatory for all listed firms. During 1999, SET published a guideline called "Code of Best Practice for Directors of Listed Firms". Two year later, Good Corporate Governance Committee, consisting of representatives from various professional organizations, publicized the Report on Corporate Governance, in order to help corporations in Thai capital market adapt good corporate governance and practices.

The Thai government has appointed 2002 as the year to start promote Good Corporate Governance, and established the National

Corporate Governance Committee (NCGC). Domithat year, SET presented 15 principles of good corporate governance for listed firms to execute and had required that from accounting eriod ending 31 December 2002 onwards listed firms must disclose how they have put into practice these fifteen principles in the interpretation statement (Form 56-1) and a mal report. Firms must provide good explantions if they fail to apply any principles.

In order to povice coulting services and act as a centre for charingof ideas about corporate governance practice with directors and executives of listed from a d with firms preparing for listing, SET for the Corporate Governance Centre in Jy 2002.

ESEARCH DESIGN

1. Conceptual Framework

The conceptual framework of this paper is presented as Figure 1.

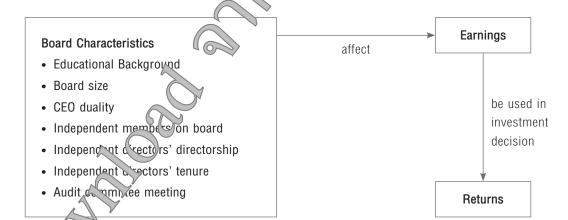


Figure 1 conceptual framework: The effect of board characteristics on earnings that are employed for investment decision

² Source http://www.set.or.th/th/operation/corporate/corporate_p1.html

2. Research Model

This paper employs the earnings response coefficient on regression of returns and earnings that is measured through the association study to measure informativeness of earnings. This is because it focuses on the market response to various releases about earnings throughout the year.

The cross-sectional regression model:

$$\begin{split} \mathsf{CAR}_{\mathsf{it}} &= \beta_0 + \beta_1 \mathsf{UE}_{\mathsf{it}} + \epsilon_{\mathsf{it}} \\ \mathsf{CAR}_{\mathsf{it}} &= \beta_0 + \beta_1 \mathsf{UE}_{\mathsf{it}} + \beta_2 \mathsf{UE}_{\mathsf{it}} \times \mathsf{BdBackground}_{\mathsf{it}} \\ &+ \beta_3 \mathsf{UE}_{\mathsf{it}} \times \mathsf{AdBackground}_{\mathsf{it}} \\ &+ \beta_4 \mathsf{UE}_{\mathsf{it}} \times \mathsf{BdSize}_{\mathsf{it}} + \beta_5 \mathsf{UE}_{\mathsf{it}} \times \mathsf{CEOdual}_{\mathsf{it}} \\ &+ \beta_6 \mathsf{UE}_{\mathsf{it}} \times \mathsf{BdInd}_{\mathsf{it}} + \beta_7 \mathsf{UE}_{\mathsf{it}} \times \mathsf{BdDir}_{\mathsf{it}} \\ &+ \beta_8 \mathsf{UE}_{\mathsf{it}} \times \mathsf{BdTen}_{\mathsf{it}} + \beta_9 \mathsf{UE}_{\mathsf{it}} \times \mathsf{AdMeet}_{\mathsf{it}} \\ &+ \beta_{10} \mathsf{UE}_{\mathsf{it}} \times \mathsf{Block}_{\mathsf{it}} + \beta_{11} \mathsf{UE}_{\mathsf{it}} \times \mathsf{Own}_{\mathsf{it}} \\ &+ \beta_{12} \mathsf{UE}_{\mathsf{it}} \times \mathsf{FmSize}_{\mathsf{it}} + \beta_{13} \mathsf{UE}_{\mathsf{it}} \times \mathsf{Risk}_{\mathsf{it}} \\ &+ \beta_{14} \mathsf{UE}_{\mathsf{it}} \times \mathsf{Growth}_{\mathsf{it}} + \beta_{15} \mathsf{UE}_{\mathsf{it}} \times \mathsf{Persist}_{\mathsf{it}} \\ &+ \beta_{16} \mathsf{UE}_{\mathsf{it}} \times \mathsf{Lev}_{\mathsf{it}} + \beta_{17} \mathsf{UE}_{\mathsf{it}} \times \mathsf{Big4(5)}_{\mathsf{it}} \\ &+ \epsilon_{\mathsf{it}} \end{split}$$

3. Data and Sample Selection

The data is extracted from the sample of listed firms on the Stock Exchange of Thailand (SET) in the year 2000 and the year 2004. The companies in banking, finance, securities, and insurance industries are excluded because the nature of their basin see, is relatively different from that of companies in other industries and they are also subjected to monitoring by other related organizations such as the Bank of Thailand.

Moreover, they are concerned about good corpo ate governance by National Corporate Governo ce Committee which appoints the Sub-Committee on the Enhancement of Corpo e Governance in Commercial Banks, Finance Companies, and Insurance Companies to set the principles for raising the standard of Cooperate Governance of commercial banks, for the companies, and insurance companies to be companies with the fiscal year end not an December, 31 are also excluded from particle. This is because the fiscal year of most of listed firms ends on December, 31. Additionally, the listed firms under rehabilitation sectorate excluded from the sample.

In FERNAHONAL, I-SIMS and SET SMART databases.⁴ The board characteristics, concentrated ownership, managerial ownership, and big 4(5) auditor data are colleted from SET SMART databases, Form 56-1 disclosed by listed firms, and firms' annual report.

EMPIRICAL RESULTS

1. Descriptive Statistics

Descriptive statistics of data for the year 2000 and 2004 are presented on Table 2 and 3 respectively. When mean of board characteristics is compared between the year 2000 and 2004, it is noticed that mean of fraction of board members with accounting and/or finance educational background increases whereas that of audit committee members with accounting

Source http://www.cgthailand.org/SetCG/inter/inter.html and http://www.cgthailand.org/SetCG/inter/secure.html

⁴ I-S. and SET SMART databases are provided by the Stock Exchange of Thailand.

Table 1 Summary of variable measurement

Table 1 Summary of Variable		Y (E
Dependent variable		
1. Cumulative abnormal return	CAR	The accumulation of difference between actual eturnod expected returns for fifty- two weeks.
Independent variables		
1. Unexpected earnings	UE	The difference of earnings per share before expordinary items for current year and that for st yo thick is deflated by the absolute value of farmings per share before extraordinary items for last year.
2. Educational Background	BdBackground	The proportion of board members with accounting and/or finance education on board.
	AdBackground	The proportion of autic members with accounting and/or finance eduction on audit committee.
3. Board size	BdSize	The number of members on the board of directors.
4. CEO duality	CEOdual	1 = chief executive officer is not chairman of board, 0 = otherwise.
5. Independent directors	BdInd	The proportion of independent directors on board.
6. Directorship	BdDir	The area of directorship in other firms held by independent directors
7. Tenure	BdTen	The avoage years of board service of independent directors
8. Audit committee meeting	AdMeet	The umber of audit committee meetings.
Control variables	(G	
1. Concentrated Ownership	Block	The sum of stock ownership of large shareholders who own 5% or more of firm's stocks.
2. Managerial Ownership	Own	The percentage of equity shares held by officers and directors.
3. Firm Size	Fm, ze	The log of market value of equity.
4. Risk	Sisk	The standardized beta that is calculated from market model
5. Growth	Growth	The market to book ratio for equity.
6. Persistence of Earnings	Persist	The dummy variable 1 presents the group of unexpected earnings that their absolute magnitude lies below the median and 0 presents the group of unexpected earnings that their absolute magnitude lies above the median.
7. Leverage	Lev	The debt/equity ratio.
8. Big 4(5) a ditor	Big4/Big5	The dummy variable of whether firm's auditor is Big $4(5)$ auditor (1 = Big $4(5)$, 0 = otherwise).

Table 2 Descriptive statistics for the year 2000

Variables	Number of Observations	Minimum	Maximum	Mean	Std. De otion
Dependent variable				0	
Cumulative Abnormal Returns	170	-0.90	2.31	-0.15	0.61
Independent variables					
1. Unexpected earnings	170	-3.33	121.00	16	9.93
2. Educational Background					>
- Board	170	0.00	0.89	6 40	0.18
- Audit Committee	170	0.00	1.00	0.48	0.32
3. Board size	170	6.00	24.00	12.10	3.34
4. CEO duality	170	0.00	000	0.89	0.32
5. Independent directors	170	0.08	067	0.26	0.10
6. Directorship	170	0.00	(500)	1.26	1.30
7. Tenure	170	1.00	4.00	3.03	0.78
8. Audit committee meeting	170	2.00	1000	4.89	2.14
Control variables		Ca			
1. Concentrated Ownership	170	0.13	0.92	0.58	0.16
2. Managerial Ownership	170	0.60	0.94	0.19	0.20
3. Firm Size	170	1.60	4.99	2.85	0.70
4. Risk	170	28	0.87	0.27	0.29
5. Growth	170	0.13	15.35	0.92	1.35
6. Persistence of Earnings	170	0.00	1.00	0.51	0.50
7. Leverage	170	0.00	33.86	2.15	4.07
8. Big 5 auditor	170	0.00	1.00	0.60	0.49

and/or finance educational background does not change. Mean of board size well as mean of CEO duality variable declined mean of fraction of independent directors to board, the average number of directors to other firms held by independent directors, the average years of independent directors' board service, and audit committee making have the incremental value.

2. Assessment of Regression Models

2.1 Returns-Earnings Relation

From Table 4, the model of returns-earnings relation in the year 2004 presents that the coefficient of unexpected earnings (UE) (0.091) is positively significant (t = 2.888) at 0.01 level. It provides goodness of fit with adjusted R^2 value of 4.2%. These evidences show that earnings are positively related to return. For the model in the year 2000, there is no evidence of relationship between returns and earnings. Its value of adjusted R^2 is negative.

Table 3 Descriptive statistics for the year 2004

Variables	Number of Observations	Minimum	Maximum	Mean	Std. Deviation
Dependent variable					
Cumulative Abnormal Returns	170	-0.87	6.53	-0.11	0.1)
• Independent variables					
1. Unexpected earnings	170	-2.56	12.67	943	1.66
2. Educational Background					
- Board	170	0.00	0.89		0.18
- Audit Committee	170	0.00	1.00	0.8	0.30
3. Board size	170	5.00	25.00	11.72	3.11
4. CEO duality	170	0.00	1.60	.88	0.33
5. Independent directors	170	0.09	0.70	0.34	0.11
6. Directorship	170	0.00	6 63	1.38	1.21
7. Tenure	170	1.50	00 0	3.62	0.55
8. Audit committee meeting	170	2.00	29.00	5.72	3.12
 Control variables 					
1. Concentrated Ownership	170	0.05	0.98	0.55	0.20
2. Managerial Ownership	170	0.00	0.84	0.17	0.19
3. Firm Size	170	1.00	5.50	3.30	0.74
4. Risk	170	-0.3	0.88	0.34	0.27
5. Growth	170	-24.22	12.75	1.28	2.41
6. Persistence of Earnings	170	Q00	1.00	0.52	0.50
7. Leverage	170	0.01	22.42	1.20	2.25
8. Big 4 auditor	170	0.00	1.00	0.64	0.48

Table 4 Regression results of the earnings relation **Model:** $CAR_{it} = \beta_0 + \beta_1 UE_{it} + \beta_0$

Variable	Year 2000	Year 2004
Constant	-0.143***	-0.145***
	$(-3.007)^{\circ}$	(-2.688)
UE	-0.003	0.091***1
	(-0.704)	(2.888)
Adjusted R ²	-0.3%	4.2%
p-value	0.482	0.004***

ficant at the 0.01 level. Note:

he number in the parenthesis is the t-statistics for the estimated regression coefficient. One-tailed test.

2.2 The Effect of Board Characteristics on Returns-Earnings Relation

After all interaction terms of unexpected earnings and each independent variable including each control variable are added into returns-earnings model to find whether board characteristics affect earnings informativeness, the model encounters the problem of multicollinearity. The two variables with highest VIF value, unexpected earnings, and interaction term of unexpected earnings and firm size variables, are taken out from the model.

According to Table 5, the models of the year 2000 do not provide the significance of models. Their adjusted R^2 values equal to 0.6% and 0.9%.

There is no evidence of any independent which ble including any control variable affecting each light informativeness.

On Table 6, for the year 200 One in del 10 1 (with educational background variable of board) provides goodness of fit with adapted x² value of 11.1%. The degree of fit esse ween postulated model and collected data 1 1%. The significance of model is at 0.01 (e.g.). The evidences show that three interest of independent variables: educational mackground of board, CEO duality, and tenure have effect on the informativeness of earnings.

Table 5 Regression results of the effect of board charace istics on earnings informativeness (year 2000)

$$\begin{aligned} \textbf{Model:} & \quad \mathsf{CAR}_{\mathsf{it}} &= & \quad \beta_0 + \beta_1 \mathsf{UE}_{\mathsf{it}} \times \mathsf{BdBackground}_{\mathsf{it}} (+ \beta_1^\mathsf{T} \mathsf{UE}_{\mathsf{it}} \times \mathsf{DdBackground}_{\mathsf{it}}) + \beta_2 \mathsf{UE}_{\mathsf{it}} \times \mathsf{BdSize}_{\mathsf{it}} + \beta_3 \mathsf{UE}_{\mathsf{it}} \times \mathsf{CEOdual}_{\mathsf{it}} \\ & \quad + \beta_4 \mathsf{UE}_{\mathsf{it}} \times \mathsf{BdInd}_{\mathsf{it}} + \beta_5 \mathsf{UE}_{\mathsf{it}} \times \mathsf{BdDir}_{\mathsf{it}} + \beta_5 \mathsf{UE}_{\mathsf{it}} \times \mathsf{BdTen}_{\mathsf{it}} + \beta_7 \mathsf{UE}_{\mathsf{it}} \times \mathsf{AdMeet}_{\mathsf{it}} + \beta_8 \mathsf{UE}_{\mathsf{it}} \times \mathsf{Block}_{\mathsf{it}} \\ & \quad + \beta_9 \mathsf{UE}_{\mathsf{it}} \times \mathsf{Own}_{\mathsf{it}} + \beta_{10} \mathsf{UE}_{\mathsf{it}} \times \mathsf{Growth}_{\mathsf{it}} + \beta_{12} \mathsf{UE}_{\mathsf{it}} \times \mathsf{Persist}_{\mathsf{it}} + \beta_{13} \mathsf{UE}_{\mathsf{it}} \times \mathsf{Lev}_{\mathsf{it}} \\ & \quad + \beta_{14} \mathsf{UE}_{\mathsf{it}} \times \mathsf{Big5}_{\mathsf{it}} + \epsilon_{\mathsf{it}} \end{aligned}$$

Variables		(1)	(2)
Constant	A	-0.175***	-0.183***
		$(-3.446)^{\circ}$	(-3.604)
UE×BdBackground		-0.113	
		(-0.621)	
UE×AdBackground)		-0.063
			(-0.936)
UE×BdSize		0.022***2	0.023***²
		(2.717)	(2.887)
UExCEQuu		-0.310** ¹	-0.286**1
		(-2.334)	(-2.085)

Table 5 Regression results of the effect of board characteristics on earnings informativeness (year 2000) (Cont.)

Variables	(1)	(2)
UE×BdInd	0.349	0.331
	(1.198)	(1.136)
UE×BdDir	-0.008	-0.00
	(-0.416)	0.00
UE×BdTen	0.019	(F.05)
	(0.662)	(-046)
UE×AdMeet	-0.021** ¹	-0.018**1
	(-2.102)	(-1.860)
UE×Block	0.012	0.045
	(0.092)	(0.316)
UE×Own	0.278	0.262
	(1.630)	(1.574)
UE×Risk	-0.026	-0.060
	(-0.251)	(-0.592)
UE×Growth	-0.021	-0.018
	(-0 354)	(-0.292)
UE×Persist	0.018	0.008
	(0,097)	(0.044)
UEx Lev	0.004	-0.006
	(-0.274)	(-0.420)
UE× Big5	0.073	0.074
	(1.179)	(1.200)
Adjusted R ²	0.6%	0.9%
p-value	0.384	0.350

Note: *, **, *** Significan at the 0.10, 0.05, and 0.01 levels respectively.

- 0 The name in the parenthesis is the t-statistics for the estimated regression coefficient.
- 1 One-to ed test.
- 2 Two-wited test.

Table 6 Regression results of the effect of board characteristics on earnings informativeness (year 2004) (Cont.)

Variables	(1)	(2)
UE×CEOdual	-0.417***1	-0.510**1
	(-3.430)	(-2.6
UE×BdInd	0.398	(Section)
	(0.845)	Qr. (75)
UE×BdDir	0.001	3003
	(0.019)	0.049)
UE×BdTen	0.132**2	0.118*2
	(2.140)	(1.884)
UE×AdMeet	-0.013	-0.010
	(-0.631)	(-0.444)
UE×Block	-0.189	-0.223
	(-0.657)	(-0.757)
UE×Own	-0.580***2	-0.719***2
	(-2.651	(-2.980)
UE×Risk	-0.573·×1	-0.455** ¹
	(-248)	(-2.060)
UE×Growth	-0.027	-0.016
	(-1.436)	(-0.847)
UE×Persist	-0.105	-0.081
	(-0.309)	(-0.235)
UEx Lev	-0.020	-0.013
	(-0.920)	(-0.601)
UE× Big4	0.076	0.115
	(0.706)	(1.047)
Adjusted R ²	11.1%	8.8%
p-value	0.003***	0.011**

Note: *, **, *** Inglificant at the 0.10, 0.05, and 0.01 levels respectively.

number in the parenthesis is the t-statistics for the estimated regression coefficient one-tailed test.

Two-tailed test.

For control variables, the evidences show that two control variables: managerial ownership, and risk have effect on the informativeness of earnings.

As for the model no. 2 with educational background variable of audit committee for year 2004 provides goodness of fit with adjusted R² value of 8.8%. The degree of fitness between postulated model and collected data is 8.8%. The significance of model is at 0.05 level. The evidences of this model indicate that the three similar interested independent variables: educational background of

audit committee, CEO duality, and tenure as in the model with educational background variable of board have effect on the informativeness carnings. The two identical conformativeness of managerial ownership, and risk also have effect on the informativeness of earnings.

2.3 The Change on the Efficient Board Characteristics on Earnings Informative ess between the Year 2000 and the Year 2000

From table 5 and both the evidences of p-value of the ode for the year 2000 and 2004

Table 7 Summary results of hypotheses test (year 2000)

Variables	Predicted Sign	Result	Level of Significance
• Independent variables			
1. Unexpected earnings	+	Not support	-
2. Educational Background			
- Board	+	Not support	_
- Audit Committee	+ 0	Not support	_
3. Board size	(/ -	Not support	-
4. CEO duality		Not support	_
5. Independent directors		Not support	_
6. Directorship	+/-	Not support	_
7. Tenure	+/-	Not support	_
8. Audit committee meeting	+	Not support	_
Control variables			
1. Concentrated Ownership	+/-	Not support	_
2. Managerial Owners io	+/-	Not support	_
3. Firm Size	+/-	N/A	N/A
4. Risk	-	Not support	_
5. Growth	+/-	Not support	-
6. Persistence or arnings	+	Not support	-
7. Leverage	-	Not support	-
8. Big 4(5) uditor	+	Not support	_

Table 8 Summary results of hypotheses test (year 2004)

Variables	Predicted Sign	Result	Level of Significance
• Independent variables			
1. Unexpected earnings	+	Support	
2. Educational Background			
- Board	+	Support	0.01
- Audit Committee	+	Support	0.05
3. Board size	+/-	Not support	
4. CEO duality	+	Not support1	0.01
5. Independent directors	+	Not suppor	-
6. Directorship	+/-	Not support	_
7. Tenure	+/-	suppor	0.05
8. Audit committee meeting	+	Not support	_
Control variables		6	
1. Concentrated Ownership	+/-	Not upport	_
2. Managerial Ownership	+/-	Support	0.01
3. Firm Size	+/-	N/A	N/A
4. Risk	-	Support	0.01
5. Growth	+/-	Not support	_
6. Persistence of Earnings	+	Not support	_
7. Leverage	-	Not support	_
8. Big 4(5) auditor	+ 0	Not support	-

Note: 1. This variable has effect on earning informativeness in inverse direction.

and the relation of some board characteristics with earnings informativenes for the year 2004 state that comparative to the highest that comparative to the highest continuous informativeness is better in the year 2004.

CONCLUSION

The many bjective of this paper is to investigate whether the characteristics of board of arresponding which is a mechanism of corporate go rna ice affect earnings informativeness after

reform of corporate governance system in Thai capital market, which is one of the emerging markets.

The cross-sectional regression is used to assess the model. The significance of coefficient of unexpected earnings is tested to find the evidence whether earnings have informativeness. The significance of coefficient of the interaction term between unexpected earnings and each interested independent variable is tested to find the evidences if board characteristics affect

earnings informativeness.

According to the evidences, earnings in the year 2004 following the Year of Corporate Governance provide informativeness but those in the year 2000 following the reforms of corporate governance do not. There is no evidence of any variable for the year 2000 impacting earnings informativeness. However, for the year 2004, educational background of board and of audit committee, CEO duality, tenure including control variables: managerial ownership and systematic risk have effect on the informativeness of earnings.

1. Discussion and Interpretation

1.1 Returns-Earnings Relation

Since the year 2000 was a few years after financial crisis in Thailand, it is likely that the confidence of investors about stability of Thai stock market in that year was still quite low. Kanogporn Narktabtee (2000: 88, 98) investigates whether accounting information, particular (cash flow information, is useful to investoring capital market. According the eviden esshe finds that cash flows from financing activities are most value-relevant in 1994 and 1997. 1995 and 1996, cash flows from financing activity re the second most important performance measure whereas earnings are the mog value-relevant information. Kanogporn Narktabte (25%): 98-99) implies that, in Thai capital man et, earnings in year 1997 lost its information content when the economic situation dum that year was unstable. Her study also into that earnings are not necessary nost important performance measure for

the investors in Thai capital market. Additionally existence of audit committee, whose main do is to review the financial reporting process ensure that accounting information and Marcial reports are reliable with best quality, os jus been implemented in late 1999 and son, listed firms have just set audit committed du he year 2000. Investors' confidence on a ting information for the year 2000 after macia crisis might be minimal. Therefore, there is tendency that earnings in the year 2000 might he provide informativeness and, according to Kanoporn Narktabtee (2000)'s evidences, investor, night consider more on other performance measures such as cash flow. This is consistent the result in this paper that there is no relationship between returns and earnings ip e year 2000.

The result of returns-earnings model in the year 2004 shows that there is the relationship Detween returns and earnings. Then, earnings provide informativeness. The Stock Exchange of Thailand (SET) has been more concern about corporate governance system. Investors have tended to have more confidence in the quality of accounting information and their investment. SET Index increased tremendously from 269 at the end of the year 2000 to 668 at the end of the year 2004.

1.2 The Effect of Board Characteristics on Earnings Informativeness

The models for the year 2000 do not show the evidences of the effect of board characteristic variables on earnings informativeness. This is likely due to the fact that corporate governance system began to get attention after financial crisis in 1997. Wallace and Zinkin (2005: 1) said that "prior to the turmoil of event of the 1997 Asian financial crisis, corporate governance did not appear to matter very much to an Asian audience." It was possible that the participants in Thai market just started to focus more on board characteristics including other mechanisms of corporate governance in the year 2000.

According to the evidences on the models for the year 2004, which was the year that capital market had been recovered since financial crisis, some board characteristics: educational background of board and of audit committee, CEO duality, and the service period on board of independent directors, are perceived by investors to have effects on earnings informativeness.

From the evidences found on this paper, it can be implied that the participants in Thai market for the year 2004 believe that the accounting and/o finance education of directors and audit omnittee members is crucial to ensure reliabing and best quality of accounting information and financial report. This is consistent with the requirement of the SET that at least one aud committee member must have knowledge, understoning, or experience in accounting or finance oversee accounting and financial reporting systems. However, for educational background of audit committee, test of difference between board characteristic variables for way year 2000 and 2004 indicates that proposion of audit committee members with account and/or finance educational background for the year 2004 is not different from that for the

year 2000. Investors perceive earnings of from vith higher fraction of audit committee member with accounting and/or finance educational background as being more informative than @rning of mols with lower fraction of audit compittee nembers with accounting and/or final e educational background for the year. Whereas there is no related evidence for ar 2000. This may be result from that expressed audit committee has just been implemented in late 1999 and some listed firms The not stablished audit committee since the beginnion of the year 2000. Audit committee of pose firms has been set during the year 200 Therefore, investors' focus on the charicteric of audit committee in the year 2000, compared to the year 2004, might be minimal and is likely that investors did not perceive the effect of educational background of audit committee on Qarnings informativeness in the year 2000.

The investors in Thai market perceive that, for the year 2004, earnings of firms with CEO who also occupies the board chairman position are more informative. This is not consistent with hypothesis that informativeness of earnings is positively related to the separation of CEO and the chairman of board position. However, it is consistent with stewardship theory which proposes that CEO duality would facilitate effective action by the CEO, and consequently result in higher performance (Boyd, 1995: 304). Donaldson and Davis (1991: 51) demonstrate that "the executive manager, under this theory, far from being an opportunistic shirker, essentially wants to do a good job, to be a good steward of the corporate

assets." In this case, it may imply that board chairman who is the same person as CEO may have more experience and better knowledge on firm's business and information system than the chairman who is not the same person as CEO. The investors may recognize this point and believe that with a deeper understanding of the firm's accounting and financial reporting systems and being a good steward of firm, such chairman would find ways to improve quality of accounting information and financial reports. According to fifteen principles of good corporate governance outlined by the SET, listed firms have freedom of choice with regard to combination of the titles of board chairman and CEO into one position or separation of them as two positions, and whichever way they choose, there should be a clear separation of power and authorities so that no one would be granted unlimited power.

The participants in Thai market perceive earnings of firms for the year 2004 with long period of board service of independent recors as being more informative. This is onsistent with Chtourou et al. (2001: 13, 25) that having experience on board, outside lirectors obtain better knowledge of executive of the long competence of monitoring and perceive firm's process of financial reporting effects. Jy.

1.3 The Change of the Effect of Board Characteristics on Earnings Informativeness between the Year 2000 and the Year 2004

The voices show that the effect of board characeristics on earnings informativeness is better

in the year 2004 than that in the year Although it is not able to certainly indicate to starting promotion of Good Corporate Governance in the year 2002 leads to the conge to effect of board characteristics on informationness of earnings between the year 2000 and me year 2004 since firms may have the wn policy to change board characteristics that time, the Stock Exchange of Thailar SET has continuously supported the development of good corporate governance and Juring the Jear 2002, it presented fifteen principles of go corporate governance for listed firms to eccoe. These imply that the effect of board characteristics on earnings informativeness is better be year 2004 than that in the year 2000 provides all from starting promotion of Good Corate Governance in the year 2002 and ntinuous supporting the development of good coSorate governance by the SET. Furthermore, Qest of difference between board characteristic variables for the year 2000 and 2004 indicates that most board characteristics are improved in the year 2004. This may result in finding that there are the effects of some board characteristics on earnings informativeness for the year 2004 whereas there is no evidence of the effect of board characteristics on earnings informativeness for the year 2000. Improvement of most board characteristics in the year 2004 may also result from starting promotion of Good Corporate Governance in the year 2002 and continuous supporting the development of good corporate governance by the SET.

2. Limitations

The study of this paper is under some limitations that the readers should realize. First, most corporate governance data are collected from the Form 56-1. This Form must be read. Therefore, the collection of corporate governance data is under subjective decision.

Second, the disclosure of some data is limited or inconsistent. For audit committee meeting, some listed firms do not provide the number of audit committee meetings. So the number of four meetings per year is employed for the firm that does not provide the data of meeting. This number is used because listed firms have to prepare quarterly financial reports and audit committee is likely to hold quarterly meetings to review them. As for managerial ownership, there is inconsistent disclosure of the percentage of equity shares held by only directors is collected. Nevertheless, some directors are also firm's officers.

Third, to meet the objective of combility on tenure variable between two years (2000 and 2004), the maximum number of service years to be collected for each independent director is four years. The reason for using the years is that data for most observations in the year 2000 can only be traced back up to four years.

Finally, since the evidences found in this paper are for one the year 2004, generalization of them is limited.

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