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# Signaling and Substitution Hypotheses in Malaysian **Share Repurchases**

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**Abstract** There is an increasing trend of firms undertaking share repurchases in Malaysia, yet limited studies on repurchase activities have been published. This study attempts to examine managerial motives for repurchase in Malaysia using signaling and substitution hypotheses. Unlike firms in western countries, firms in Malaysia are bound by strict rules and regulations before embarking on repurchases, thus it is argued that motives for share repurchases would be different from those of the developed markets. The results of this study are consistent with signaling hypothesis where Malaysian firms repurchase shares partly to signal undervaluation and better operating performance. They also buy back shares whenever there is an increase in cash flows. However, there is no evidence to support that these firms bought back shares to substitute dividend payments as documented by studies from western countries. In fact, repurchases are used to complement dividends. Further evidence shows that managerial ownership has significant influence on firms' repurchase decisions.

**Keywords** Share Repurchases, Share Buybacks, Signaling, Substitution Hypothesis

### 1. Introduction

Share repurchases (SR) have become an important phenomenon in corporate distribution policy in the US (e.g.[1-5]). Malaysian firms are also actively participating in repurchase activities. From the inception year in 1997 until December 2005, 305 firms or about 25 percent of all listed firms have participated in repurchases activities [6]. However, studies pertaining to repurchases in emerging economies as in Malaysia are limited and have focused mainly on the announcement effects of repurchases.

Numerous studies in the west and developed market as in[4] and[8] have established that firms repurchase shares to substitute for dividends payments. To the authors' knowledge, there is limited documented empirical evidence on substitution motive of share repurchases in emerging market as in Malaysia. Furthermore, it is argued that such motive may not be relevant in emerging economies mainly due to different ownership patterns prevalent in many Malaysian firms. Thus, this study attempts to empirically examine motives of repurchases decision in Malaysia using signaling and substitution hypotheses.

## 2. Literature Review and Hypothesis Development

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Share repurchases (SR) are formally allowed late in 1997 by Malaysian government after the Asian financial crisis of 1997. Unlike repurchases in the United States, the only method of SR allowed in Malaysia is through the open market. Malaysian firms must adhere to specific rules and guidance provided by the Bursa Malaysia listing requirements in order to embark on SR[7]. The guidelines in Chapter 12 of Bursa Listing Requirements specify the size of share repurchase which is not more than 10 percent of prevailing ordinary shares and the price offered should not be more than 15 percent above the weighted average market price for the shares for the 5 market days immediately before the purchase. The same rule applies for the resale of shares so

Economic theory provides several motives as to why firms buy back their own shares which include but not limited to: a) signal undervaluation, b) disgorge excess cash flow, c) substitute cash dividends for repurchase, d) satisfy management interests, e) reduce tax, and f) maintain optimal leverage level (e.g.[1-5]). This paper will concentrate on the signaling and substitution hypotheses.

### 2.1. Signaling Hypothesis

Signaling hypothesis predicts that managers, having privy information on their firms, would be impelled to correct mispricing of their shares. One way of doing this is by announcing buyback intentions. This action implies that managers have strong beliefs that their firms are good investments and the reason for poor price performance would be due to market conditions. Reference[3] finds consistent evidence for signaling hypothesis from a survey of 194 top financial executives who engaged in open market share repurchase activities. A majority of the respondents (74.6 percent) cited that undervalued stock price is the most important reason leading to the announcement of buyback programs. From a questionnaires survey conducted among the largest 200 UK firms,[8] finds that most of the respondents believe that the important reasons for firms to buy back shares are related to information signaling hypothesis, leverage hypothesis and investment hypothesis.

Signaling hypothesis proposes that managers initiate repurchases to signal the public that their firms either a) are currently undervalued, or b) would experience increase in earnings in the future or c) are expecting reduction in firms' systematic risks. Extensive studies substantiate that these facets of signaling hypotheses were evidenced in their research but were not necessarily present simultaneously (e.g.[5] &[9]). References[8-9] find consistent evidence for signaling hypothesis from a survey of financial executives who engaged in share repurchases. Therefore it is hypothesized that;

H<sub>1</sub>: Firms with poor prior price performance are more likely to repurchase shares.

H<sub>2</sub>: Firms with better operating performance are more likely to repurchase shares.

Reference[10] argues that managers of cash-rich firms are subjected to severe agency problems. Having more free cash at their disposal, managers are likely to over-invest in negative net present value (NPV) projects, consume more discretionary perquisites for private benefit, or unnecessarily retain cash. When firms distribute cash dividends to shareholders, the firms are actually reducing their agency costs. Free cash flow hypothesis posits that shareholders with excess funds should benefit from share repurchases. In comparison to dividend payments, disbursement of cash through share buybacks offers managers the flexibility to manage the magnitude and timing of disbursements of excess cash.

There is inconclusive evidence pertaining to the importance of disgorging excess free cash flow in share repurchase decisions. References[11] and[12] find no support for excess free cash flow hypothesis for firms that initiate tender offer share repurchases announcements. However, many studies establish support for Jensen's theory of disgorging excess free cash flow (e.g.[2] &[13]). Mature firms with low growth opportunities tend to invest in unprofitable projects. By repurchasing its own shares, a firm is actually distributing the excess cash flow back to its shareholders and thus reducing the agency cost associated with free cash flow. SR conveys a positive indication that managers do not engage in opportunistic behavior. Instead of embarking in unprofitable projects or acquisitions, the managers choose to distribute firms' excess cash back to shareholders. Therefore it is hypothesized that;

 $H_3$ : Firms with excess cash are more likely to repurchase shares.

### 2.2. Substitution Hypothesis

Reference[14] considers dividends and share repurchases as perfect substitute. For decades, US firms preferred to pay out cash in the forms of dividends over share repurchases despite the disadvantages of tax treatment on dividends payment. However, the trend is reversing. Reference[4] reports that while dividends payment grew at an average rate of 7.5 percent per year over the period 1980 - 1998 in the US, share repurchases volume has grown at an average rate of 28.3 percent during the same period of time.

Theoretically, after a firm paid cash dividends, the price of its shares would come down proportionately with the amount of dividends paid[15]. Interestingly, [2], [16], and [17] find that the announcement of corporate intention to buy back its shares would push the price upward with an average return of 3 to 4 percent observed during the announcement period. Positive price reaction after SR certainly gives strong inclination for a firm to choose buybacks rather than cash dividends. Unlike dividend announcements, share buyback announcements are not liabilities. It is not necessary for firms to actually buy back their own shares in order to gain its benefits. Furthermore, not all shareholders equally participate in buybacks. Despite this inequality, repurchase is considered as a great tool for management especially if flexibility is needed in a distribution policy. Managers can determine the appropriate amount of shares they are required to repurchase whenever the need arises (e.g.[2] &[5]).

Reference[4] argues that if buybacks and cash dividends are substitutes and assuming that managers are concerned with shareholders benefits, managers would choose the distribution policy that would maximize shareholders' utility functions. The introduction of Tax Reform Act of 1986 (TRA 1986) in the US reduced the gap between taxes on capital gains and dividends. Given that TRA 1986 reduced the potential capital gain benefits, which firms have enjoyed previously, it is expected that buyback activities would be slightly less evident after 1986. They reported that the mean (median) market reaction for firms announcing buybacks decision prior to TRA 1986 was a positive 3.49 percent (2.56) percent) while those that announced buyback intentions after approval of tax reform 1986 experienced market reaction of a positive 2.42 percent (1.65 percent) and the differences are significant at 1 percent level. This finding supports that TRA 1986 causes repurchases to be less attractive.

Reference[2] finds lack of evidence to support the notion that firms repurchased shares to replace dividends in the US for the period from 1977 to 1996. In a censored regression analysis,[2] uses dividend payout as a proxy for substitution hypothesis. Dividend payout is the ratio of cash dividends paid to net income in the year prior to actual buybacks. The coefficient of dividend payout is consistently positive and significant in most of the sample years suggesting that firms that bought back their shares do not use funds that otherwise would be used to pay dividends. Reference[18] examines flexibility and substitution hypotheses of share repurchases and dividends using time-series vector autoregression. The

study finds that repurchases are mostly related to temporary earnings but not dividends and both repurchases and dividends are not related to permanent earnings. Therefore, [18] concludes that share repurchases and dividends are not perfect substitutes. Likewise, recent survey conducted by [8] also shows weak support to the idea that firms buy back shares to replace dividend payments. In other words, firms do not substitute dividends for buybacks.

References[19] and[20] show that repurchases are increasingly becoming the dominant payout method among firms in the US. Using Litner regression model on 25 years of data (1980 to 2005) to examine the relationship between dividends and buybacks to earnings,[20] finds that there is a strong relationship between earnings and buybacks but weak relationship between earnings and dividends; thus, supportive to the idea that repurchase is the preferred method of cash distributions. In summary, there is inconclusive evidence as to whether share repurchase is a perfect substitute for cash dividends. Therefore it is hypothesized that:

H<sub>4</sub>: Firms are more likely to reduce dividends to embark on repurchases.

#### 2.3. Control Variables

Many firms in Malaysia are characterized by concentrated ownership whereby significant portion of equity is owned by individual or group of individuals, as in reference[6]. Given that these individuals' wealth is tight up with firm's financial decisions, it is expected that ownership would have significant influence in share repurchase decision in Malaysia. This study uses managerial or director ownership as a proxy for ownership influence in share repurchases decision. Previous studies have shown that size and growth opportunities affect share repurchases decisions. Likewise, this study employs market to book value (MTBV) and market value (MV) as proxies for growth opportunities and size respectively.

# 3. Sample and Methods

One major difference of this study as compared to other studies is that it focuses only on firms that carried out repurchasing activities. In Malaysia, a firm is required to get shareholders' approval before it can repurchase its shares and that approval is only valid for a period of one year. This setting allows us to investigate why firms repurchased shares in certain years and not others. Focusing only on repurchasing firms gives a better picture of repurchasing motives than comparing between repurchasing and non-repurchasing firms as non-repurchasing firms might not engage in repurchases because of other reasons such as it is not their financial policy.

The sample includes all public listed companies on Bursa Malaysia Main Market that repurchased shares from 1999 to April 2006. Finance-related companies and utilities firms are excluded from the sample as these firms are bound by

different regulations. A total of 122 non-financial and non-utility firms repurchase their shares are identified from Datastream database and annual reports. To ensure that repurchases implementations present measurable impact on firms' financial figures, only firms that have bought back cumulatively more than 1 percent of their shares outstanding from the year 1999 to April 2006 are included in the final sample. This condition produces a final sample of 80 repurchase firms.

Financial data are collected for each firm from the year prior to the first repurchase year. The process above produces a sample of 364 firm-year observations, consisting of 122 non-repurchase firm-years and 242 of actual repurchase firm-years as shown in Table 1.

Year	N-SR* events	SR** events	Total events
1999	0	2	2
2000	10	8	18
2001	9	19	28
2002	23	19	42
2003	22	26	48
2004	35	35	70
2005	15	63	78
2006	6	72	78
Total	122	2.42	264

Table 1. Share repurchases observation

Tobit regression is used to estimate the following equation:

$$SR_{i,t} = \alpha + \beta_1 M1_{i,t-1} + M2_{i,t} + M3_{i,t} + M4_{i,t} + DIR_{i,t-1} + DIR_{i,t-1}^2 + MTBV_{i,t-1} + MV_{i,t} + \varepsilon_{i,t}$$
(1)

Where, SR is the number of shares repurchased during the year scaled by the number of ordinary shares outstanding for the year. M1 is the prior 12-month cumulative market adjusted abnormal return in the previous year (CAR12M). M2 is the change in EBITDA of current year from that of the prior year where EBITDA is the ratio of earnings before interest, taxes, depreciation and amortization to total assets. M3 is the change in cash level in current year as compared to the cash level in the previous year. Cash level is measured as cash and cash equivalents scaled by total assets. M4 is the change in dividend per share of the current year to that of the prior year. Dividend per share is calculated as cash dividends paid scaled by average number of ordinary shares outstanding.

DIR is the percentage of managerial ownership in the firm. It is expected that the relation between managerial ownership and repurchase decision is non-linear therefore DIR<sup>2</sup> is included in the regression model. Previous studies have identified that size and growth opportunities have significant influence on firms' financial decisions as in[2] and[5]. This study uses size as measured by natural log of market value (MV) and market to book value (MTBV) as a measure of

<sup>\*</sup>N-SR is non repurchasing observations

<sup>\*\*</sup>SR is repurchasing observations

growth opportunities. Table 2 summarizes the hypotheses tested in the study and the expected sign.

Table 2.	Summary of hypotheses tested and expected sign	gn

Variables	Proxy	Hypothesis	Expected sign
M1	Prior CAR12M	Signaling of undervaluation	-ve
M2	Δ in EBIT DA	Signaling of operating performance	+ve
M3	Δ in Cash	Signaling of excess cash flow	+ve
M4	Δ in Dividend per share	Substitution	-ve

### 4. Findings and Analysis

Table 3 describe minimum, maximum, mean and standard deviation for all variables tested. On average firm repurchased 1.18% of their shares outstanding which is markedly lower than the average shares bought back by firms in the western markets, typically about 5%-6%. The sample firms have positive changes in EBITDA, changes in cash flow, changes in dividends per share and experienced positive 1.7% cumulative average abnormal returns prior to the repurchases. Managerial ownership is rather high with the mean of 42.19 %. Reference[22] also finds that the average board ownership in Malaysia is about 43.44%. The mean market value for the sample is RM 885 millions with the maximum value of RM13, 982 millions.

 Table 3. Descriptive Statistic

	1.C		3.7	C I D
	Minimum	Maximum	Mean	Std. Dev
	Statistic	Statistic	Statistic	Statistic
SR	.0000	.1702	0.0118	0.0190
M1	-1.9119	2.3561	0.0174	0.5019
M2	-0.5251	1.2265	0.0095	0.1109
M3	-0.6025	0.8172	0.0079	0.0854
M4	-0.8805	0.9607	0.0056	0.1074
DIR	0.0000	0.8502	0.4219	0.1927
MKTBV	0.2300	5.9600	1.1604	0.8834
MV	14.7800	13982.58	885.29	1687.17

 Table 4.
 Nonparametric correlations

	M1	M2	M3	M4	DIR	MTBV
M1						
M2	0.083					
M3	0.053	0.106				
M4	0.130*	-0.005	0.042			
DIR	0.153**	0.055	0.018	0.098		
MTBV	0.282	0.011	0.083	0.109	0.182	
MV	0.279	0.009	0.090	0.161	0.064	0.566

<sup>\*\*,\*</sup> denotes significant at 5 % and 10% level respectively

Table 4 shows the nonparametric correlations of independent variables. It is safe to say that the model does

not suffer from multicolinearity as none of the coefficient is above 0.5.

Table 5 shows the results of tobit regression on the motives of share repurchases in Malaysia. The results support signaling hypothesis as the coefficient for MI (CAR12M), the prior 12-month cumulative average abnormal returns is significantly negative at 1%. Managers believe that their share prices were mistakenly undervalued and believe that there would be better performance in the future. Managers' belief is supported with the positive coefficient on M2 (Changes in EBITDA), a proxy for future operating performance. The result is also significant at 1%. Therefore, these results show that managers embark on share repurchases to signal underpricing and to convey positive outlook of their firms.

Several studies document that cash levels are positively associated with buyback decisions (see for example[2],[5] and[21]). These studies support Jensen's agency theory that predicts that firms with excess free cash flow would mitigate agency problems by distributing excess cash in the form of dividends or share repurchases. The coefficient of M3 (Changes in cash) is positive and marginally significant, which supports free cash flow hypothesis.

Table 5. Tobit regression result on motives of repurchases

Variables	Coefficient	t-stat	p-value	
M1	-0.0094	-3.25	0.001***	
M2	0.05890	4.73	0.000***	
M3	0.0323	1.93	0.055*	
M4	0.0340	2.31	0.021**	
DIR	0.0475	1.90	0.058*	
DIR <sup>2</sup>	-0.0691	-2.15	0.032**	
MTBV	-0.0052	-2.54	0.012**	
MV	0.0019	1.64	0.103	

\*\*\*, \*\*, \* denotes significant at 1%, 5 % and 10% level respectively

It is hypothesized that firms repurchase shares to substitute for dividends. On the contrary, the result in Table 5 demonstrates that M4 (Changes in dividends per share) is significantly positive. This result shows that dividendpaying firms also repurchased more of their shares. Firms do not buy back shares to replace dividends payments but on top of paying dividends, firms also repurchase shares to distribute funds to shareholders. The result failed to accept the null hypothesis that firms repurchase shares to substitute for dividend payments. Table 6 demonstrates this issue further by comparing the total amount of cash spent for repurchasing shares and paying cash dividends for sample firms from 1999 to April 2006. It is clear from the table that firms spent more money on paying dividends than they do in repurchasing shares. Overall, firms spent 7.1% of EBITDA for buying back shares and 17.3% of EBITDA to pay dividends.

	a	b	С	d	e	f	g
Year	SR RM mil	DIV RM mil	Total RM mil	EBITDA RM mil	% DIV	% SR	% Total payout
1999	3.0	0.129	3.1	495	0.03%	1%	1%
2000	157	446	603	4,463	10%	4%	14%
2001	657	1,106	1,763	5,762	19%	11%	31%
2002	146	1,018	1,164	5,954	17%	2%	20%
2003	295	1,281	1,576	7,549	17%	4%	21%
2004	413	1,635	2,047	8,201	20%	5%	25%
2005	1,443	1,875	3,317	10,536	18%	14%	31%
2006	689	1,944	2,633	10,937	18%	6%	24%
Total	3,801	9,305	13,106	53,898	17%	7%	24%

Table 6. Yearly cash distribution in RM millions

SR is the amount spent for share repurchases in RM millions.

DIV is the amount spent for cash dividends in RM millions.

Colum a and b is the total amount spent in million RM for share repurchases and cash dividends by 364 sample firms respectively.

Colum c is the total cash distribution in RM million for the year; column d is the total amount of EBITDA for sample firms.

Column f is % of cash spent for SR scaled by Total EBITDA (column d).

Column e is the % of cash spent for DIV for the year scaled by Total EBITDA (column d) and Colum g is the % of cash spent on SR and DIV scaled by Total EBITDA (column d)

DIR and DIR<sup>2</sup> test the importance of managerial holdings in share repurchase decisions. It is found that both variables are significant in influencing repurchase decision. The higher is the managerial ownership, the more likely a firm would repurchase share. The result also indicates that there is a nonlinear relationship between director's holdings and share repurchases decision. Growth opportunities level as measured by market to book ratio (MTBV) play vital role in share repurchase decision. The negative coefficient of MTBV indicates that low growth firms, a common characteristic of matured firms, would be more likely to return their cash to shareholders in the form of share repurchases to divest excess cash. Size of firms as measured by natural log of market value (MV) is not important in explaining firms' repurchases decisions.

### 5. Conclusions

Firms buy back shares for multiple reasons. Those motives that are relevant in the western countries may not necessarily be prevalent in the emerging countries due to different regulations and corporate governance measures. This study examines signaling and substitution hypotheses in the context of concentrated ownership which is prevalent in many emerging markets such as in Malaysia. It is found that firms in Malaysia repurchase shares to signal undervaluation and better operating performance as well as to distribute excess cash. It is also found that firms with low growth opportunities choose repurchases to divest off excess cash. However, there is no evidence to support that firms repurchased shares to substitute for or reduce dividend payments.

There are several future avenues for research regarding SR activities in Malaysia. For example, studies should look

empirically into the long term accounting and price performance of SR and corporate governance measures that affect SR decisions. This evidence would be very important in understanding the current trend of corporate payout policy.

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