CORPORATE GOVERNANCE AND THE ABNORMAL RETURNS TO ACQUISITION ANNOUNCEMENTS

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Abstract

This paper investigates the relationship between a firm's corporate governance structure and the abnormal returns associated with acquisition announcements. Based on a sample of 294 acquisitions occurring from 1994 through 1998, it is found that acquiring firms have significant two-day abnormal returns of -2.71%. A multiple regression model that includes corporate governance variables has an Adjusted R-squared of 14.2% with board size, the sensitivity of the CEO's wealth to changes in share price, method of payment, and acquiring firm size all being significant explanatory variables.

The modern corporation is a complex organization of interlocking relationships. For publicly held companies, one of the most important relationships is between the owners and managers of the firm. This relationship is a classic example of the principal-agent relationship and is characterized by a potential misalignment of goals where the agent may behave in his own interest instead of acting in the principal's interest. A firm's corporate governance structure can be used to reduce the total agency costs of a firm through the monitoring of management actions and by aligning the managers' self-interests with those of shareholders.

The board of directors has the responsibility to represent shareholders by monitoring top management. They do this by hiring and firing management, designing the executive compensation contract, and voting on major firm decisions. However, recent events from Enron to WorldCom indicate that the board may not always adequately monitor management. These events have stirred calls for board reform and the effect of board structure on corporate decision making is an important and widely debated topic.

A firm's compensation policy should be designed to attract and retain quality managers and also to align the managers' incentives with shareholders. Executive compensation is primarily composed of a base salary, a bonus often tied to accounting returns, and equity-based incentives. Stock option grants are an increasingly important component of compensation and can align interests by making compensation and overall wealth more sensitive to shareholder performance.

This study investigates the relationship between corporate governance and agency costs by examining the abnormal returns to acquisition announcements. While there are a variety of explanations for acquisitions that increase shareholder wealth, many acquisitions actually reduce shareholder wealth in both the short-run and the long-run. One explanation is that shareholder wealth reducing acquisitions are the result of the failure of corporate governance mechanisms to properly align managers' interests with those of shareholders.

The following section of this paper reviews the literature on corporate governance and mergers. The third section presents the data and methodology, followed by the empirical results in the fourth section. The final section summarizes the findings with suggestions for further research.

Literature Review

The existing literature investigating the relationship between managers' interests and mergers examines the issue from varying perspectives. Morck, Shleifer, and Vishny (1990) test managerial self-interest indirectly by arguing that self-interested managers will either diversify or buy growth firms. Since these types of acquisitions were found to be more likely to reduce shareholder wealth, they concluded that they were driven by self-interest. Kroll, Simmons, and Wright (1990) found that CEO compensation increased following acquisitions due in part to the increased size of the firm. CEO shareholdings and incentive plans were found to be positively related to announcement cumulative abnormal returns (CARs) by Travlos and Waegelein (1992). Ueng (1998) also found that managers with large stockholdings relative to salary are more likely to make acquisitions that increase shareholder wealth. Datta, Iskandar-Datta, and Raman (2001) find that the proportion of equity-based compensation (EBC) leads to higher abnormal returns in mergers. All of these papers support the idea that managers may behave in their own interest in merger decisions as opposed to focusing on shareholders' interest.

This paper differs in that it tries to take a broader perspective of corporate governance. If the corporate governance structure is effective, then the manager is less likely to make shareholder-wealth reducing decisions, including acquisitions. However, the question arises as to what factors affect governance effectiveness. The variables used in this study include the proportion of the board represented by independent outsiders, the size of the board of directors, and the sensitivity of the CEO's equity-based wealth to stock price.

The role of the board of directors in modern corporations has become increasingly important in recent years. Critics have pointed to scandals at Enron, WorldCom, and Tyco (just to name a few) as evidence that boards have become too lax in their duties and simply rubberstamp the actions of CEOs. These failures of corporate governance have opened the door to government involvement such as Sarbanes-Oxley or Eliot Spitzer. While there have been many suggestions for board reform, reducing board size and increasing board independence are two of the most common and tested recommendations.

Fama (1980) and Fama and Jensen (1983) recommend the use of independent outsiders on the board of directors. As support, Weisbach (1988) finds that the relationship between executive turnover and performance is stronger for outsider-

dominated boards. Byrd and Hickman (1992) find that tender offer bidders are best served when outsider representation is close to 60% of the board. Rosenstein and Wyatt (1990,1997) find that the share price response was positive to announcements of outside directors and insignificantly negative to the addition of inside directors. Thus, there is some empirical evidence that supports the argument that outside representation on the board might result in better monitoring. This leads to the first hypothesis of this paper stated in null form.

Hypothesis 1: Acquisition abnormal returns are unrelated to the proportion of outside directors.

Board size has also been suggested as a possible factor affecting monitoring quality by Lipton and Lorsch (1992) and Jensen (1993). Yermack (1996) finds that the log of board size is negatively related to Tobin's Q. Core, Holthausen, and Larcker (1999) find that CEOs are able to extract greater pay from larger boards. However, there is also evidence that large boards do a better job. Grinstein and Hribar (2004) find that larger boards tend to pay smaller M&A bonuses to managers. The effect of board size then becomes an empirical question tested in the second hypothesis.

Hypothesis 2: Acquisition abnormal returns are unrelated to board size.

While the structure of the board is part of corporate governance, one must also examine what the board does. One of the most important functions of the board is determining the compensation of executives and the degree to which a manager's wealth is tied to shareholder wealth. While setting compensation is not the only monitoring function of the board, it is a function that has been criticized as an example of CEOs having excess influence over the board. Other monitoring functions might involve the threat of firing managers for inferior performance and the level of effort put forth by outside directors in evaluating firm decisions, including mergers; however, these functions cannot be observed and measured as easily as the compensation sensitivity.

Jensen and Murphy (1990), among others, argue that compensation is not effectively related to share performance for many firms. Baker, Jensen, and Murphy (1988) and Rose and Shepard (1997) show that factors such as firm size and degree of diversification also affect compensation levels. Thus, a manager might be better off if an acquisition increases size and/or diversification even if shareholder wealth is reduced.

Since compensation structure may change dramatically from year to year, the use of a single year's compensation may not capture the true alignment between the manager's wealth and shareholder wealth. To better capture this, a measure of the sensitivity of the CEO's total firm-related wealth to changes in share price is included. If abnormal returns to acquisitions are positively related to the sensitivity of the CEO's total wealth to changes in share price, then this would provide evidence that greater wealth sensitivity results in better alignment between managers and shareholders as tested in the third hypothesis.

Hypothesis 3: Acquisition abnormal returns are unrelated to the sensitivity of the CEO's total wealth to changes in share price.

These hypotheses investigate agency conflict within firms by examining its effect on acquisition decisions. In addition to the above variables, control variables representing whether the acquisition was made with cash and the size of the acquiring firm are also included. These variables have been found to be related to merger returns and are included to isolate the effects of the tested variables.

Data and Methodology

This study basically involves a two-step procedure. First, an event study on acquisition announcements is used to determine the acquiring firm's abnormal returns. Second, these abnormal returns are used as the dependent variable in regression models in order to explain the cross-sectional variation in abnormal returns.

The sample includes 294 acquisitions that were completed from 1994 to 1998. In order to be included in the sample, the acquisition could not involve regulated utility or financial firms, foreign firms, or privately-held firms. Sufficient data for the companies also had to be available from CRSP, Compustat, and proxy statements. In order to reduce the level of noise in the findings, the target firm had to have a market value of at least 10% of the acquiring firm, there could not be a preexisting relationship between the firms, the acquiring firm could not have made an earlier acquisitions in the same fiscal year, and there could be no confounding events around the two-day event window. Table 1 summarizes the sample selection process and reasons for exclusion.

2,173	Firms delisted from CRSP due to acquisition from 1994-1998
1,006	Regulated utility (4000's) or financial (6000's) firms
435	Acquiring firm common stock data not on CRSP
319	Market value of target firm less than 10% of value of acquiring firm
43	Preexisting relationship between firms
43	Missing other data from proxies or Compustat
14	Acquiring firm had prior acquisition in same fiscal year
<u> 19</u>	Confounding announcement around two-day event window
294	Final Sample of acquisitions for two-day event window

Table 1Sample Selection Summary

The market model approach was used to calculate abnormal returns to acquiring firm shareholders. The parameters for the model are estimated from day -135 to day -16, where day 0 is the first newspaper report of the acquisition. The initial announcement date was determined by searching the Lexis/Nexis database and the Wall Street Journal index. The CRSP equal-weighted index is used as a proxy for the market return.

$$\mathbf{R}_{jt} = \boldsymbol{\alpha}_{j} + \boldsymbol{\beta}_{j} \mathbf{R}_{mt} + \boldsymbol{\varepsilon}_{jt} \tag{1}$$

The estimated parameters are then used to determine a security's expected return given the market return. The expected return is then subtracted from the security's actual return to determine the abnormal return for each day in the event window.

$$AR_{it} = R_{it} - (\alpha_i + \beta_i R_{mt})$$
⁽²⁾

The cumulative abnormal return for a given security is simply the sum of daily abnormal returns over the event window.

$$CAR_{j} = \Sigma AR_{jt}$$
⁽³⁾

The CARs are then used as the dependent variable in a regression model using corporate governance variables as independent variables.

For each acquiring firm in the sample, the proxy statement for the fiscal yearend preceding the first announcement of the merger is collected. The number of directors is found and directors are classified as being independent if they have never been employed by the firm nor had any other outside business dealings with the firm such as being employed as the firm's lawyer, accountant, banker, or consultant. Executives of other firms that do business with the acquiring firm are treated as being affiliated. Cross directorships, where the director of the acquiring firm is a CEO of a firm that has the CEO of the target firm as a director, are also treated as being affiliated. The independent variables used are defined as the number of outside, unaffiliated, independent directors divided by the total number of directors (OUTDIR) and the natural log of the number of directors (BRDSIZ).

Another independent variable measures the sensitivity of the CEO's firm-related wealth to changes in the firm's stock price (WTHSEN). The proxy statement lists the number of shares owned, the number and intrinsic value of exercisable stock options, the number and intrinsic value of unexercisable stock options, and the number and exercise price of stock options granted in the past year. This data is provided for the firm's top five managers, but only the data for the CEO at the time when the merger is announced is used.

Valuing executive stock options and their delta sensitivity to changes in stock price is a difficult process. Since these options are non-tradeable, an option pricing model has to be used. The Merton modification of the Black-Scholes option pricing model is used to value the stock options.

$$C = e^{-\delta t} S^* N(d1) - X e^{-\tau t} N(d2)$$
(4)

The stock prices are taken as of the fiscal year-end preceding the merger announcement. The exercise price for new grants is given in the proxy statement, but the weighted average exercise price for old grants must be estimated. First, the intrinsic value of the new grants is calculated as the difference between the fiscal-year end price and the exercise price multiplied by the number of new option grants. If the fiscal year end price is less than the exercise price, then the intrinsic value is zero.

$$(S - X)$$
 * Number of new grants = Intrinsic Value of new grants (5)

Second, this value is deducted from the total intrinsic value of all option grants as given in the proxy statement leaving the intrinsic value of the old option grants.

To find the number of old option grants, simply deduct the number of new grants from the total number of grants as reported in the proxy statement. Finally, the weighted average exercise price for old option grants can be estimated by solving for X using the following formula.

$$(S - X)$$
 * Number of old grants = Intrinsic Value of old grants (6)

The return of the continuously compounded 10-year and 5-year CRSP US Government Bond Fixed Term Index Series is used to estimate the risk-free rate of interest, r. The time to expiration, t, is assumed to be 10 years for new grants and 5 years for existing grants. Finally, e is the base of the natural logarithms and N(*) is the cumulative probabilities for the following unit normal variables:

$$d1 = \frac{\ln\left(\frac{S}{X}\right) + t\left[r - \delta + \left(\frac{\sigma^2}{2}\right)\right]}{\alpha\sqrt{t}}$$
(7)

$$d2 = \frac{\ln\left(\frac{S}{X}\right) + t\left[r - \delta + \left(\frac{\sigma^2}{2}\right)\right]}{\alpha\sqrt{t}}$$
(8)

Where δ represents a constant dividend yield gathered from Compustat for the fiscal year prior to the merger announcement and σ is the standard deviation of the stock's return calculated during the market model estimation period discussed earlier.

By summing the value of the stock held by the CEO, the value of the new grants, and the value of prior grants, we can estimate the CEO's total wealth related to the value of the firm's stock. The CEO will likely have some of his wealth invested in other assets, and while this may have some effect through the correlation between the value of the firm and the value of the CEO's other assets, this effect is believed to be small enough to allow it to be ignored.

The CEO's wealth sensitivity is then calculated as the change in the CEO's firm-related wealth given a 1% change in the stock price scaled by the CEO's total firm-related wealth (WTHSEN). Guay (1999) suggests that the sensitivity of compensation and wealth is more likely to affect decision making than just the level of wealth. By using the valuation models, it is possible to calculate the change in value for a given 1% change in the firm's stock price. For stock this is an obvious calculation --- a 1% change in the firm's stock price will change the value of the CEO's stock holdings by 1%. However, option values are more sensitive to changes in share price, and greater option holdings relative to stock holdings will increase the wealth sensitivity measure.

In addition to the test variables described above, an indicator variable identifying primarily cash transactions (CSHPMT) and the natural log of the market value of the acquiring firm (LOGSIZ) measured sixteen days prior to the merger announcement are included. These control variables have been found to be significant explanatory variables in previous studies. Other variables that have been found to be significant, such as premium paid and whether or not the target firm is in the same industry, are not included. The reasoning for this is that their inclusion distracts from the purpose of this study and ultimately leads to the same questions. For example, if high takeover premiums tend to have lower abnormal returns, why would the acquiring firm and its managers be willing to pay such high premiums?

Empirical Results

In this section, the empirical results of the event study on acquisition announcements and hypotheses tested are given. Table 2 contains descriptive statistics on the model parameters, abnormal returns for each day in the event window, and the cumulative abnormal returns (CARs). Two-day abnormal returns on acquisition announcements averaged -2.71% and ranged from a high of 19.72% to a low of -32.38%. The mean abnormal returns on days -1 and 0 are -1.27%and -1.44%, respectively. The mean CAR and both daily abnormal returns are significantly different from zero at the 1% level and are consistent with prior findings of negative returns to acquirers.

The next part of the study takes the CAR's for each acquiring firm and uses them as the dependent variable in a regression model. Table 3 contains summary statistics of the independent variables, Table 4 shows the correlations between the independent variables, and Table 5 shows the regression results.

	Mean	Median	St. Dev.	Max	Min
Alpha	-0.0003	-0.0003	0.0026	0.0094	-0.0099
Beta	1.3900	1.2426	0.9109	4.6280	-0.5371
CAR(-1,0)	-0.0271***	-0.0222	0.0748	0.1972	-0.3238
Day –1	-0.0127***	-0.0095	0.0565	0.2186	-0.1986
Day 0	-0.0144***	-0.0085	0.0504	0.1298	-0.2938

Table 2 Summary Statistics of Event Study Abnormal Returns

Tests for significant differences from zero were conducted for the CAR and the daily abnormal returns. Significance at the 10%, 5%, and 1% levels are indicated by '*', '**, and '***', respectively.

	Summary Statistics of Independent variables					
	Mean	Median	St. Dev	Min	Max	
OUTDIR	0.529	0.556	0.193	0	0.900	
BRDSIZ	2.064	2.079	0.322	1.099	2.833	
WTHSEN	0.012	0.011	0.002	0.010	0.019	
CSHPMT	0.299	0	0.459	0	1	
LOGSIZ	20.207	20.282	1.615	16.525	24.533	

Table 3Summary Statistics of Independent Variables

For all tables, OUTDIR is the proportion of unaffiliated outsiders on the board of directors. BRDSIZ is the natural log of the number of directors on the board. WTHSEN is the percentage change in the value of the CEO's total firm-related wealth given a 1% increase in the firm's FYE share price. CSHPMT is a dummy variable equal to one if the acquisition was financed by cash. LOGSIZ is the natural log of the market value of the acquirer measured 16 days prior to the acquisition announcement.

VARIABLE	OUTDIR	BRDSIZ	WTHSEN	CSHPMT	LOGSIZ
OUTDIR	1.0000	0.1163	0.2361	0.1274	0.1464
BRDSIZ	0.1163	1.0000	0.3258	0.2607	0.4691
WTHSEN	0.2361	0.3258	1.0000	0.2443	0.3740
CSHPMT	0.1274	0.2607	0.2443	1.0000	0.0573
LOGSIZ	0.1464	0.4691	0.3740	0.0573	1.0000

Table 4 Correlations Among Independent Variables

	Model 1	Model 2	Model 3	
OUTDIR	-0.026 -1 209			
BRDSIZ	0.051 3.416***			
WTHSEN	8.803 3.337***	9.373 3.573***	9.565 3.915***	
CSHPMT	0.031 3.296***	0.038 4.042***		
LOGSIZ	-0.010 -3.485***	-0.006 -2.323**		
Adj. R-SQ F-Stat.	0.142 10.700***	0.109 12.962***	0.047 15.329***	

Table 5OLS Multiple Regression Results

Results represent a single regression of the form CAR(-1,0)_i = $\beta_0 + \beta_1 X I_i + \beta_2 X I_i + \dots + \beta_5 X S_i + \varepsilon_i$ Where X_i is the variable of interest. OLS estimates of each β are given along with the t-statistic for testing the null hypothesis of $\beta = 0$. Adjusted R-Squared's and F-statistics for testing the null hypothesis of $\beta_1 = \beta_2 = \dots = \beta_5 = 0$ are given at the bottom. Significance at the 10%, 5%, and 1% levels are indicated by '*', '**, and '***', respectively, using two-tailed tests.

While there is some correlation among the independent variables, the strongest correlations are between the test variables and the firm size control variable. Firm size and board size are highly correlated, but it is important that both variables remain in the model as we want to capture the effect that board size has that is independent from the effect of firm size. As seen in Table 5, these two variables actually have opposite effects on abnormal returns.

The overall model is highly significant with an F-value of 10.7 and an Adjusted R-squared of 14.2%. Among the independent variables, wealth sensitivity, board size, method of payment, and acquiring firm size are all significant at the 1% level. The wealth sensitivity measure was positive and significant as expected, but the strength of the relationship warrants some attention. In a similar study, Datta, Iskandar-Datta, and Raman (2001) regress two-day abnormal returns on a measure of equity-based compensation (EBC) along with acquiring firm size and a dummy variable for cash acquisitions. Their Model 1 shows a significant, positive relationship between EBC and abnormal returns and the model has an Adjusted R-squared of 1.25% and an F-statistic of 2.45. Using Wealth Sensitivity instead of EBC in this study results in Model 2 with an Adjusted R-squared of 10.9% and an F-statistic of 12.96. Using just Wealth Sensitivity by itself in

a simple regression results in an Adjusted R-squared of 4.7% and an F-statistic of 15.33 for Model 3. These results suggest the importance of the CEOs overall wealth as opposed to just examining a single year's compensation as motivation to the acquisition decision.

Independent outside directors made up an average of 52.9% of the boards for this sample of firms. This proportion is somewhat higher than the 39.2% mean figure found in Byrd and Hickman (1992), but is similar to the 56% found in Shivdasani (1993). The regression results in Table 5 indicate that the proportion of outside directors on the board is not a significant predictor of abnormal returns.

This result is in contrast to Byrd and Hickman's (1992) finding of a positive but nonlinear relationship in their study of abnormal returns to tender offers where the acquiring firm is listed on the NYSE or AMEX. However, when Byrd and Hickman use proportion of independent directors as their variable, they also find no significance. They do find a positive, significant relationship when they use a dummy variable for boards with greater than 50% independent directors. When they use a piecewise regression, they find a positive and significant relationship when independent directors make up 40-60% of the board and a negatively significant relationship for boards with greater than 60% independent board members. In an effort to further investigate the difference in the results, the CARs are calculated for different proportions of outside representation and are presented in Table 6. The results provide no evidence of a relation between outside directors and abnormal returns, and regressions that include a dummy for independent boards and piecewise regressions also yield no significant results.

VARIABLE	Occurrences	CAR	
OUTDIR less than 40%	71	-2.09%	
OUTDIR 40% to 50%	71	-2.96%	
OUTDIR 50% to 67%	87	-3.02%	
OUTDIR over 67%	65	-2.70%	

 Table 6

 Outside Directors and Cumulative Abnormal Returns

The average board size for the firms in this sample is 8.31 directors (average log of board size is 2.064). This figure is considerably lower than the 12.1 directors in Byrd and Hickman (1992) based on a sample of NYSE/AMEX firms and the 12.25 directors in Yermack (1996) based on a sample from the *Forbes* 500 list of largest U.S. public corporations. However, the figure is more in line with the 9.35 directors found in Denis, Denis, and Sarin (1999) who used a random sample of all firms covered by CRSP.

Based on the regression results, it is possible to reject the null hypothesis of no relation between board size and abnormal returns at the 1% significance

level suggesting that larger boards do a better job of monitoring firm managers in acquisition decisions. The positive finding between board size and abnormal returns goes against suggestions that large boards are less effective at monitoring made by Lipton and Lorsch (1992) and Jensen (1993). However, the empirical evidence on this matter was somewhat mixed and warrants additional investigation. Table 7 shows the average CARs for different board sizes. While this shows some evidence of a decline for boards of 12 or more, the greater evidence is that small boards do a poor job.

VARIAB	LE	Occurrences	CAR	
BRDSIZ	less than 5	45	-6.10%	
BRDSIZ	equals 6	36	-3.70%	
BRDSIZ	equals 7	56	-2.90%	
BRDSIZ	equals 8	31	-2.70%	
BRDSIZ	equals 9	38	-2.80%	
BRDSIZ	equals 10	24	-1.80%	
BRDSIZ	equals 11	24	1.10%	
BRDSIZ	equals 12	23	-0.15%	
BRDSIZ	more than 12	19	-1.12%	

 Table 7

 Board Size and Cumulative Abnormal Returns

The two results involving the board of directors differ from some previous findings, but there are some possible interpretations and explanations. First, this sample is considerably different from previous studies. Most previous studies focused on large firms by sampling from NYSE/AMEX firms, *Forbes* 500 firms, or firms with data on S&P's Execucomp. In a more recent article covering mergers between 1993 and 1999, Grinstein and Hribar (2004) also find evidence against the superiority of smaller boards in their analysis of M&A bonuses. They speculate that the differences in their findings might be due to a greater proportion of new-economy firms. This might also be the case here, although it is uncertain why new-economy boards would behave differently from old-economy boards.

A second possibility involves the different dependent variables used in the studies. Yermack (1996) found a negative relationship between board size and Tobin's Q, whereas I find a positive relationship between board size and acquisition announcement CARs. Theoretically, Tobin's Q should reflect the market's estimate of the present value of all of a firm's future investment opportunities, including acquisitions. Under this idea, the different findings might reflect the market's high expectations of firms with small board sizes and independent boards and the market's subsequent disappointment when the acquisition is announced.

A third possibility is the different roles taken by the board of directors. In studies of CEO turnover, both Yermack (1996) and Wu (2000) find that the relationship between turnover and performance is stronger for firms with smaller boards. In turnover decisions, it seems reasonable that greater independence between the board and the CEO would benefit shareholders. However, in acquisition decisions, shareholders might be better served by a closer relationship between the board and the CEO. Larger boards might contribute additional knowledge about the target firm and the industry overall. This distinction between the monitoring and advisory roles might explain why larger boards seemed to perform better in this paper and in Grinstein and Hribar (2004).

The cash payment and firm size control variables are both significant explanatory variables in the model. Thirty percent of the acquisitions are financed by cash and there is a positive relation with the CARs that is significant at the 1% level. This is consistent with findings that stock swaps are viewed less favorably by the market. The average size of acquiring firms is \$2.2 billion (average log of firm size is 20.2) and there is a negative relation that is significant at the 1% level suggesting that large firms make worse acquisition decisions.

In order to evaluate any possible changes in the variables over time, Table 8 presents the mean variable values for the mergers announced in the different years from 1993 through 1998. There does not appear to be any obvious trends in the data and a regression model that includes dummy variables for the years in addition to the existing variables does not yield any relevant insights.

YEAR	1993/94	1995	1996	1997	1998
OCCURRENCES	39	46	58	92	59
CAR(-1,0)	-0.0280	-0.0411	0.0043	-0.0226	-0.0534
OUTDIR	0.5139	0.5454	0.5220	0.5119	0.5582
BRDSIZ	2.1125	2.0972	2.1510	2.0171	1.9961
WTHSEN	0.0117	0.0118	0.0119	0.0113	0.0116
CSHPMT	0.2564	0.3043	0.3966	0.2609	0.2881
LOGSIZ	20.3054	20.0858	20.2856	20.0390	20.4232

Table 8 Variable Averages for Different Years

Conclusion

The first contribution of this paper is simply the use of data from the 1990's and the inclusion of smaller, new-economy firms in the sample. Holmstrom and Kaplan (2001) contrast merger activity in the 1980's and 1990's and suggest that improved corporate governance has made the 1990's much less hostile. They

note the rise in equity-based compensation to top executives and a 1993 change in tax laws that encouraged the use of incentive compensation as evidence that firm managers are more responsive to shareholders. They also mention improved monitoring as evidenced by a decline in board sizes and increased shareholder activism by CalPERS and other institutions.

While corporate governance may have resulted in a less hostile market for corporate control, this has not translated into improved returns to acquiring firms. I find two-day abnormal returns of -2.71% when acquisitions are announced. If corporate governance has improved in the 1990's, why are firms still making acquisitions that reduce shareholder wealth?

The most interesting finding in this paper is the strength of the relationship between CEO's wealth sensitivity and acquisition announcement CARs. The other two findings add to the muddled results regarding boards of directors and firm performance. In a survey article, Hermalin and Weisbach (2003) conclude that the relationship between board charcteristics and firm performance may be spurious as both may be driven by other factors. The results in this paper agree that board composition is not a determining factor and that smaller boards may not be the cure imagined.

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