

## A STUDY OF THE FINANCIAL CHARACTERISTICS OF U.S. TARGET COMPANIES ACQUIRED BY U.S. AND FOREIGN BUYERS BEFORE, DURING, AND AFTER THE 2008 FINANCIAL CRISIS

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### ABSTRACT

*Mergers and acquisitions (M&A) is one of the most popular research topics in finance. The synergistic benefits of and market reaction to mergers have been studied extensively. Most merger studies deal with specific countries. Cross-country mergers and acquisitions have not received sufficient attention. The impact of financial crises on M&A activities has not been studied sufficiently. In this empirical study, we make a contribution on these subjects by comparing the financial characteristics of U.S. target companies acquired by U.S. companies with the financial characteristics of U.S. target companies acquired by foreign companies before, during, and after the 2008 financial crisis. We find that the overall financial characteristics of the two groups of targets were significantly different before the crisis. However, the financial characteristics of the target companies have become quite similar during and after the crisis. Before the crisis, U.S. acquirers preferred smaller size targets with greater liquidity, higher profit margins, and lower debt ratios compared with foreign acquirers. Our MANOVA test statistics indicate that the overall financial characteristics of the two target groups were not significantly different during and after the 2008 crisis. Our univariate test statistics show that U.S. acquirers preferred smaller size targets during the crisis and targets with a greater total assets turnover both during and after the crisis.*

**Keywords:** mergers, acquisition, finance, crisis

### 1. PREVIOUS LITERATURE AND MOTIVATION FOR THE STUDY

Mergers and acquisitions (M&A) have been a popular research topic in finance. The M&A literature has traditionally focused more on the acquirers than on the targets. Poor post-merger performance and bad market reaction to mergers are generally explained by reasons such as hubris (Roll, 1986), managerial entrenchment (Jensen 1986; Morck et al., 1988; Shleifer and Vishny, 1989), empire building (Rhoades, 1983; Black, 1989) and bad judgment (Morck et al., 1990). Value creation and destruction in mergers have been evaluated extensively in the context of diversification (Lang and Stulz, 1994; Berger and Ofek, 1995; Servaes, 1996).

The focus of most M&A studies has been limited either to specific industries or to specific countries (see, e.g., Meric et al., 1991; Rose, 1987; Trifts and Scanlon, 1987). Cross-country mergers have not received sufficient attention. Foreign acquisition of U.S. companies has been increasing in recent years. Sherman and Badillo (2010) argue that weak dollar and low company valuations have made U.S. targets cheaper and encouraged foreign buyers after the 2008 financial crisis.

Research papers studying the financial characteristics of U.S. targets acquired by foreign predators are scarce. The impact of financial/economic crisis on domestic and foreign acquisitions has not been studied sufficiently.

In this paper, we make a contribution on these subjects by comparing the financial characteristics of U.S. target companies acquired by U.S. companies and foreign predators before, during, and after the 2008 financial crisis.

The remainder of the paper is organized as follows: Part II explains our methodology. In Part III, we provide information about the data used in the study. We present our empirical findings in Part IV. Part V summarizes our findings and concludes the paper.

## 2. METHODOLOGY

Comparing the financial characteristics of different groups of firms with financial ratios has long been a popular research methodology in finance. Altman (1968), Edmister (1972), and Dambolena and Khoury (1980) predict bankruptcy by comparing the financial ratios of bankrupt and healthy firms. Stevens (1973), Belkaoui (1978), Rege (1984), and Meric et al. (1991) use financial ratios to identify the financial characteristics of companies which become the target of corporate takeovers. Hutchinson et al. (1988) use financial ratios to identify the financial characteristics of companies, which achieve stock market quotation in the U.K.

Multiple Discriminant Analysis (MDA) and Multivariate Analysis of Variance (MANOVA) are the two statistical methods most commonly used in previous studies to compare the financial characteristics of different groups of firms. In this paper, we use the MANOVA method (see: Johnson and Wichern, 2007) to compare the financial characteristics of U.S. target companies that were acquired by foreign companies with the financial characteristics of U.S. target companies that were acquired by U.S. companies before, during, and after the 2008 financial crisis.

## 3. DATA

Our data collection process consists of three steps. First, we identify the U.S. target companies acquired by U.S. and foreign buyers during the 2005–2011 period. Secondly, we group these target firms into three categories, based on their merger announcement dates. Merger announcements between January 1, 2005 and October 8, 2007 are considered as "Before Crisis" mergers, those between October 9, 2007 and March 9, 2009 are considered as "During Crisis" mergers, and those between March 10, 2009 and December 31, 2011 are considered as "After Crisis" mergers. Lastly, we collect the data from the financial statements of the target U.S. companies.

The mergers and acquisitions data are collected from the Capital IQ database. We first identified the U.S. public firms acquired by either U.S. or foreign companies during the period of 2005–2011. We then collected the annual data from the year-end financial statements of our sample firms from the Compustat database for the fiscal year one year prior to the year of merger. In order to mitigate the excessive influence of the outliers, we winsorized our sample at the 1% and 99% levels.

Overall, our sample consists of 321 U.S. target companies. The break-down of the sample based on the merger announcement date is displayed in Table 1. In addition, the summary statistics of the targets acquired by US companies and targets acquired by international companies are presented in Table 2. The financial ratios used in the comparisons as measures of financial characteristics are presented in Table 3.

**Table 1: Sample Information and Number of Observations**

|   | Before Crisis | During Crisis | After Crisis | Full Sample |
|---|---------------|---------------|--------------|-------------|
| Targets acquired by US Companies            | 83            | 51            | 86           | 220         |
| Targets acquired by International Companies | 45            | 25            | 31           | 101         |
| All Targets                                 | 128           | 76            | 117          | 321         |

This table displays the number of target firms included in our sample.

Table 2: Summary Statistics of the Targets Acquired by U.S. and International Companies

| Variables             | Targets Acquired by US Companies |        |           | Targets Acquired by International Companies |          |           |
|-----------------------|----------------------------------|--------|-----------|---|----------|-----------|
|                       | Mean                             | Median | Std. Dev. | Mean  | Median   | Std. Dev. |
| Total Assets          | 1,652.11                         | 360.31 | 4,552.23  | 5,355.90                                    | 1,151.85 | 18,162.13 |
| Current Assets        | 621.04                           | 179.74 | 1,847.09  | 1,494.22                                    | 371.09   | 4,811.61  |
| Net Fixed Assets      | 1,031.07                         | 134.23 | 3,034.85  | 3,861.68                                    | 555.55   | 13,477.80 |
| Sales                 | 1,425.75                         | 355.33 | 3,578.92  | 4,305.08                                    | 553.52   | 14,111.47 |
| Net Income            | 88.42                            | 11.42  | 436.08    | 278.88                                      | 24.94    | 862.16    |
| Stock Price per Share | 19.46                            | 13.14  | 18.79     | 24.25                                       | 18.87    | 23.90     |

This table displays the summary statistics of the sample. The values are in thousands of U.S. dollars.

Table 3: Financial Ratios Used in the Study as Measures of Firm Financial Characteristics

| Financial Ratio Name                      | Financial Ratio Definition                           |
|---|--|
| <i>Liquidity</i>                          |  |
| Current Ratio (CUR)                       | Current Assets / Current Liabilities                 |
| Quick Ratio (QR)                          | (Current Assets - Inventories) / Current Liabilities |
| Liquid Assets Ratio (LAR)                 | (Cash + Marketable Securities) / Total Assets        |
| <i>Asset Management (Turnover) Ratios</i> |  |
| Accounts Receivable Turnover (ART)        | Sales / Accounts Receivable                          |
| Inventory Turnover (INT)                  | Sales / Inventory                                    |
| Fixed Assets Turnover (FAT)               | Sales / Net Fixed Assets                             |
| Total Assets Turnover (TAT)               | Sales / Total Assets                                 |
| <i>Financial Leverage</i>                 |  |
| Total Debt Ratio (TDR)                    | Total Debt / Total Assets                            |
| <i>Profitability</i>                      |  |
| Net Profit Margin (NPM)                   | Net Income / Sales                                   |
| Operating Profit Margin (OPM)             | Operating Income / Sales                             |
| Return on Assets (ROA)                    | Net Income / Total Assets                            |
| Earning Power Ratio (EPR)                 | Operating Income / Total Assets                      |
| Return on Equity (ROE)                    | Net Income / Common Equity                           |
| <i>Growth</i>                             |  |
| Capital Expenditures Ratios (CER)         | Capital Expenditures / Total Assets                  |
| <i>Market Value</i>                       |  |
| Market-to-Book Ratio (MBK)                | Market Value Per Share / Book Value Per Share        |
| <i>Size</i>                               |  |
| SIZE                                      | Natural Logarithm of Total assets                    |

This table explains the calculation methodology of the ratios used in the study. The ratios are calculated with data for the fiscal year prior to the year of the acquisition.

#### 4. EMPIRICAL FINDINGS

##### Pre-Crisis Period

The MANOVA test statistics for the pre-crisis period are presented in Table 4. The multivariate F statistic is used to test the null hypothesis that the mean ratio/variable vector for the U.S. firms acquired by other U.S. firms is not significantly different from the mean ratio/variable vector for the U.S. firms acquired by foreign predators. The multivariate F statistic in the table indicates that the alternative hypothesis should be accepted at the ten-percent level of significance (i.e., the overall financial characteristics of the two groups of firms are significantly different at the ten-percent level).

**Table 4: MANOVA Statistics for the Pre-Crisis Period: Firms Targeted by U.S. firms vs. Firms Targeted by Foreign Acquirers**

| Financial Ratios                          | Means and Standard Deviations† |                  | Univariate Statistics |         |
|---|--------------------------------|------------------|-----------------------|---------|
|   | U.S. Targets                   | Foreign Targets  | F value               | P Value |
| <i>Liquidity</i>                          |                                |                  |                       |         |
| Current Ratio                             | 3.25<br>(2.70)                 | 2.22<br>(1.35)   | 5.72**                | 0.03    |
| Quick Ratio                               | 2.56<br>(2.47)                 | 1.62<br>(1.25)   | 5.80**                | 0.02    |
| Liquid Assets Ratio                       | 0.23<br>(0.19)                 | 0.14<br>(0.16)   | 6.41***               | 0.01    |
| <i>Asset Management (Turnover) Ratios</i> |                                |                  |                       |         |
| Accounts Rec. Turnover                    | 14.18<br>(25.01)               | 26.84<br>(17.25) | 0.78                  | 0.38    |
| Inventory Turnover                        | 25.83<br>(49.54)               | 26.84<br>(52.67) | 0.01                  | 0.91    |
| Fixed Assets Turnover                     | 12.78<br>(25.06)               | 10.48<br>(20.41) | 1.10                  | 0.30    |
| Total Assets Turnover                     | 1.13<br>(0.61)                 | 1.06<br>(0.64)   | 0.39                  | 0.53    |
| <i>Financial Leverage</i>                 |                                |                  |                       |         |
| Total Debt Ratio                          | 39.6%<br>(20.4%)               | 46.7%<br>(18.4%) | 3.75*                 | 0.06    |
| <i>Profitability</i>                      |                                |                  |                       |         |
| Net Profit Margin                         | 4.8%<br>(12.3%)                | -8.2%<br>(64.5%) | 3.18                  | 0.08    |
| Operating Profit Margin                   | 7.4%<br>(13.6%)                | -5.8%<br>(62.2%) | 3.45                  | 0.07    |
| Return on Assets                          | 3.5%<br>(11.4%)                | 3.2%<br>(11.0%)  | 0.04                  | 0.85    |
| Earning Power Ratio                       | 6.3%<br>(13.0%)                | 6.0%<br>(12.7%)  | 0.01                  | 0.92    |
| Return on Equity                          | 6.0%<br>(26.2%)                | 4.1%<br>(32.0%)  | 0.12                  | 0.73    |
| <i>Growth</i>                             |                                |                  |                       |         |
| Cap. Expenditure Ratio                    | 4.7%<br>(5.4%)                 | 5.5%<br>(4.4%)   | 0.69                  | 0.41    |
| <i>Market Value</i>                       |                                |                  |                       |         |
| Market-to-Book Ratio                      | 2.80<br>(2.40)                 | 2.72<br>(1.81)   | 0.04                  | 0.84    |
| <i>Size</i>                               |                                |                  |                       |         |
| Size (Ln of Total Assets)                 | 5.85<br>(1.60)                 | 6.91<br>(1.90)   | 11.3***               | 0.00    |
| <b>Multivariate Statistics:</b>           |                                |                  | 1.57                  | 0.09    |

\*\*\*, \*\*, \* indicate that the difference is significant at the 1-percent, 5-percent, and 10-percent levels, respectively. † The figures in parentheses are the standard deviations.

Our univariate MANOVA test results indicate that U.S. acquirers preferred targets with more liquidity compared with foreign acquirers during the pre-crisis period. The univariate F statistics show that U.S. firms targeted by other U.S. firms have significantly higher levels of liquidity compared with U.S. firms targeted by foreign predators. The liquid assets ratio is significantly different at the 1-percent level and the current and quick ratios are significantly different at the 5-percent level between the two groups of firms. The univariate F statistics indicate that U.S. acquiring firms target firms with lower debt ratios and higher profit margin compared with foreign acquirers. The mean total debt ratio of the targets acquired by other U.S. firms is significantly lower than the mean total debt ratio of the targets acquired by foreign companies at the 10-percent level of significance. U.S. acquirers might have thought about utilizing the unused debt capacity of the targets.

The activity, return on assets, earning power, return on equity, growth, and market value ratios of the two groups of target firms are not significantly different. However, profit margin ratios of the U.S. targets acquired by foreign firms are significantly lower than the profit margin ratios of the firms acquired by other

U.S. firms. It may be interpreted as foreign acquirers thinking about improving the profit margins of the U.S. targets by using foreign manufacturing technology and cost-cutting measures. Our univariate MANOVA F statistic indicates that foreign predators prefer larger size targets compared with U.S. acquirers. The test statistics is highly significant at the 1-percent level. It can be interpreted as U.S. acquirers willing to take more chance on small, and possibly riskier, U.S. targets compared with foreign acquirers.

### Crisis Period

The MANOVA test statistics for the crisis period are presented in Table 5. The multivariate test statistic in the table indicates that the overall financial characteristics of the two groups of target firms are not significantly different in the crisis period. However, the univariate test statistics show that the two groups of firms are significantly different in terms of total assets turnover and size.

**Table 5: MANOVA Statistics during the Crisis: Firms Targeted by U.S. firms vs. Firms Targeted by Foreign Acquirers**

| Financial Ratios                          | Means and Standard Deviations† |                   | Univariate Statistics |         |
|---|--------------------------------|-------------------|-----------------------|---------|
|   | U.S. Targets                   | Foreign Targets   | F value               | P Value |
| <i>Liquidity</i>                          |                                |                   |                       |         |
| Current Ratio                             | 2.83<br>(2.12)                 | 3.18<br>(3.09)    | 0.33                  | 0.57    |
| Quick Ratio                               | 2.15<br>(1.84)                 | 2.67<br>(3.02)    | 0.86                  | 0.35    |
| Liquid Assets Ratio                       | 0.21<br>(0.22)                 | 0.18<br>(0.18)    | 0.20                  | 0.66    |
| <i>Asset Management (Turnover) Ratios</i> |                                |                   |                       |         |
| Accounts Rec. Turnover                    | 9.90<br>(10.44)                | 7.26<br>(5.27)    | 1.42                  | 0.24    |
| Inventory Turnover                        | 28.12<br>(58.14)               | 29.92<br>(64.27)  | 0.02                  | 0.90    |
| Fixed Assets Turnover                     | 12.34<br>(16.02)               | 7.96<br>(9.32)    | 1.60                  | 0.21    |
| Total Assets Turnover                     | 1.10<br>(0.65)                 | 0.84<br>(0.49)    | 3.16*                 | 0.08    |
| <i>Financial Leverage</i>                 |                                |                   |                       |         |
| Total Debt Ratio                          | 43.2%<br>(22.8%)               | 44.5%<br>(24.8%)  | 0.05                  | 0.83    |
| <i>Profitability</i>                      |                                |                   |                       |         |
| Net Profit Margin                         | 3.0%<br>(17.1%)                | -11.9%<br>(76.7%) | 1.77                  | 0.19    |
| Operating Profit Margin                   | 5.5%<br>(18.1%)                | -12.8%<br>(91.1%) | 1.94                  | 0.17    |
| Return on Assets                          | 2.5%<br>(15.0%)                | 1.5%<br>(10.1%)   | 0.10                  | 0.76    |
| Earning Power Ratio                       | 5.2%<br>(16.0%)                | 3.2%<br>(11.1%)   | 0.31                  | 0.58    |
| Return on Equity                          | 5.4%<br>(32.1%)                | 3.7%<br>(22.8%)   | 0.06                  | 0.81    |
| <i>Growth</i>                             |                                |                   |                       |         |
| Cap. Expenditure Ratio                    | 4.6%<br>(4.1%)                 | 3.6%<br>(2.9%)    | 1.11                  | 0.30    |
| <i>Market Value</i>                       |                                |                   |                       |         |
| Market-to-Book Ratio                      | 3.46<br>(2.81)                 | 2.49<br>(2.29)    | 2.66                  | 0.11    |
| <i>Size</i>                               |                                |                   |                       |         |
| Size (Ln of Total Assets)                 | 5.90<br>(1.50)                 | 6.76<br>(2.05)    | 4.35**                | 0.04    |
| <b>Multivariate Statistics:</b>           |                                |                   | 1.29                  | 0.23    |

\*\*\*, \*\*, \* indicate that the difference is significant at the 1-percent, 5-percent, and 10-percent levels, respectively. † The figures in parentheses are the standard deviations.

U.S. acquirers appear to have preferred targets with higher total assets turnover during the crisis. The F statistic for the total assets turnover ratio is significant at the 10-percent level. As in the pre-crisis period, foreign acquirers appear to have prepared relatively larger U.S. targets during the crisis period. The test statistic for size is significant at the 5-percent level during the crisis period.

### Post-Crisis Period

The MANOVA test statistics for the post-crisis period are presented in Table 6. The multivariate F statistic in the table indicates that, as in the crisis period, the overall financial characteristics of the two groups of target firms are not significantly different in the post-crisis period. The only variable that is significantly different between the two groups of targets at the 1-percent level is total assets turnover. The result indicates that, in the post-crisis period, U.S. acquirers prefer U.S. targets with a significantly higher total assets turnover compared with foreign predators.

**Table 6: MANOVA Statistics for the Post-Crisis Period: Firms Targeted by U.S. firms vs. Firms Targeted by Foreign Acquirers**

| Financial Ratios                          | Means and Standard Deviations† |                  | Univariate Statistics |         |
|---|--------------------------------|------------------|-----------------------|---------|
|   | U.S. Targets                   | Foreign Targets  | F value               | P Value |
| <i>Liquidity</i>                          |                                |                  |                       |         |
| Current Ratio                             | 2.86<br>(1.92)                 | 2.64<br>(1.83)   | 0.31                  | 0.58    |
| Quick Ratio                               | 2.26<br>(1.65)                 | 2.07<br>(1.64)   | 0.30                  | 0.58    |
| Liquid Assets Ratio                       | 0.23<br>(0.21)                 | 0.19<br>(0.19)   | 0.88                  | 0.35    |
| <i>Asset Management (Turnover) Ratios</i> |                                |                  |                       |         |
| Accounts Rec. Turnover                    | 9.23<br>(10.81)                | 6.85<br>(4.40)   | 1.11                  | 0.24    |
| Inventory Turnover                        | 30.03<br>(70.97)               | 16.40<br>(26.66) | 1.08                  | 0.30    |
| Fixed Assets Turnover                     | 12.19<br>(18.10)               | 6.97<br>(8.51)   | 2.38                  | 0.13    |
| Total Assets Turnover                     | 1.01<br>(0.58)                 | 0.70<br>(0.30)   | 8.35***               | 0.01    |
| <i>Financial Leverage</i>                 |                                |                  |                       |         |
| Total Debt Ratio                          | 43.8%<br>(19.8%)               | 48.6%<br>(19.7%) | 1.35                  | 0.25    |
| <i>Profitability</i>                      |                                |                  |                       |         |
| Net Profit Margin                         | -8.4%<br>(60.9%)               | -7.7%<br>(31.5%) | 0.00                  | 0.95    |
| Operating Profit Margin                   | -2.5%<br>(57.1%)               | 2.9%<br>(19.4%)  | 0.26                  | 0.61    |
| Return on Assets                          | -2.4%<br>(13.2%)               | -4.3%<br>(17.2%) | 0.44                  | 0.51    |
| Earning Power Ratio                       | 2.0%<br>(11.2%)                | 2.5%<br>(10.1%)  | 0.03                  | 0.86    |
| Return on Equity                          | -6.3%<br>(30.6%)               | -8.4%<br>(41.0%) | 0.09                  | 0.76    |
| <i>Growth</i>                             |                                |                  |                       |         |
| Cap. Expenditure Ratio                    | 3.7%<br>(3.8%)                 | 4.1%<br>(3.2%)   | 0.26                  | 0.61    |
| <i>Market Value</i>                       |                                |                  |                       |         |
| Market-to-Book Ratio                      | 2.24<br>(1.87)                 | 1.97<br>(1.36)   | 0.53                  | 0.47    |
| <i>Size</i>                               |                                |                  |                       |         |
| Size (Ln of Total Assets)                 | 6.00<br>(1.98)                 | 6.61<br>(2.02)   | 2.08                  | 0.15    |
| <b>Multivariate Statistics:</b>           |                                |                  | 0.98                  | 0.48    |

\*\*\*, \*\*, \* indicate that the difference is significant at the 1-percent, 5-percent, and 10-percent levels, respectively. † The figures in parentheses are the standard deviations.

## 5. SUMMARY AND CONCLUSIONS

Cross border mergers and acquisition (M&A) is an understudied subject in finance and little is known about the effects of financial crises on M&A activities. In this paper, we make a contribution to extant literature on these subjects by comparing the financial characteristics of U.S. target companies that were acquired by U.S. companies with the financial characteristics of U.S. target companies that were acquired by foreign companies before, during, and after the 2008 financial crisis. Our MANOVA (multivariate analysis of variance) findings indicate that the overall financial characteristics of the two groups of target firms were significantly different before the crisis. However, the overall financial characteristics of the two groups of target firms were not significantly different during and after the crisis.

Before the crisis, U.S. firms acquired smaller size targets with more liquidity, higher profit margins, and lower debt ratios. However, foreign firms chose to acquire larger U.S. targets with higher debt ratios and lower liquidity and profit margin ratios during this period. During the crisis period, the preference of U.S. acquirer was smaller target firms with high total assets turnover ratios. Foreign firms chose to acquire larger U.S. firms with low total assets turnover ratios in this period. The only significant difference between the two groups of target firms in the post-crisis period was the total assets turnover ratio. U.S. acquirers preferred targets with higher total assets turnover ratios compared with foreign acquirers in this period.

## REFERENCES:

- Altman, E. I. (1968) "Financial Ratios, Discriminant Analysis, and the Prediction of Corporate Bankruptcy," *Journal of Finance*, vol. 23(4), p. 589-609.
- Belkaoui, A. (1978) "Financial Ratios as Predictors of Canadian Takeovers," *Journal of Business Finance and Accounting*, vol. 5(1), p. 93-108.
- Berger, P. G. & Ofek, E. (1995) "Diversification's Effect on Firm Value," *Journal of Financial Economics*, vol. 37, 39-65.
- Black, B. (1989) "Bidder Overpayment in Takeovers," *Stanford Law Review*, vol. 41(3), p. 597-660.
- Dambolena, I. G. & Khoury, S. J. (1980) "Ratio Stability and Corporate Failure," *Journal of Finance*, vol. 35(4), p. 1017-1026.
- Edmister, R. O. (1972) "An Empirical Test of Financial Ratio Analysis for Small Business Failure Prediction," *Journal of Financial and Quantitative Analysis*, vol. 7(2), p. 1477-1493.
- Hutchinson, P., Meric, I., & Meric, G. (1988) "The Financial Characteristics of Small Firms which Achieve Quotation on the UK Unlisted Securities Market," *Journal of Business Finance and Accounting*, vol. 15(1), p. 9-20.
- Jensen, M. C. (1986) "Agency Costs of Free Cash Flow, Corporate Finance, and Takeovers," *American Economic Review*, vol. 76(2), p. 323-329.
- Johnson, R. D & Wichern, D. W. (2007) *Applied Multivariate Statistical Analysis*, 6<sup>th</sup> ed., Englewood Cliffs, NJ: Prentice Hall.
- Lang, L. H. P. & Stulz, R.M. (1994) "Tobin's Q, Corporate Diversification, and Firm Performance," *Journal of Political Economy*, vol. 102, p. 1248-1280.
- Meric, G., Leveen, S. S., & Meric, I. (1991) "The Financial Characteristics of Commercial Banks Involved in Interstate Acquisitions," *Financial Review*, vol. 26(1), p. 75-90.

- Morck, R., Shleifer, A., & Vishny, R. W. (1988) "Management Ownership and Market Valuation: An Empirical Analysis," *Journal of Financial Economics*, vol. 20(3), p. 293-315.
- Morck, R., Shleifer, A., & Vishny, R. W. (1990) "Do Managerial Objectives Drive Bad Acquisitions?" *Journal of Finance*, vol. 45(1), p. 31-48.
- Rege, U. P. (1984) "Accounting Ratios to Locate Take-Over Targets," *Journal of Business Finance and Accounting*, vol. 11(3), p. 301-311.
- Rhoades, S.A. (1983) *Power, Empire Building, and Mergers*, Lexington, MA: D. C. Heath & Co.
- Roll, R. (1986) "The Hubris Hypothesis of Corporate Takeovers," *Journal of Business*, vol. 59(2), p. 197-216.
- Rose, P.S. (1987) "The Impact of Mergers in Banking: Evidence from a Nationwide Sample of Federally Chartered Banks," *Journal of Economics and Business*, vol. 39(4), p. 289-313.
- Servaes, H. (1996) "The Value of Diversification during the Conglomerate Merger Wave," *Journal of Finance*, vol. 51(4), p. 1201-1225.
- Sherman, A. J. & Badillo, A. (2010) "Is the M&A Market Back?" *Journal of Corporate Accounting & Finance*, vol. 21(2), p. 55-60.
- Shleifer, A. & Vishny, R.W. (1989) "Management Entrenchment: The Case of Manager-Specific Investments," *Journal of Financial Economics*, vol. 25(1), p. 123-139.
- Stevens, D. L. (1973) "Financial Characteristics of Merged Firms: A Multivariate Analysis," *Journal of Financial and Quantitative Analysis*, vol. 8(2), p. 149-158.
- Trifts, J. W. & Scanlon, K. P. (1987) "Interstate Bank Mergers: The Early Evidence," *Journal of Financial Research*, vol. 10(4), p. 305-312.