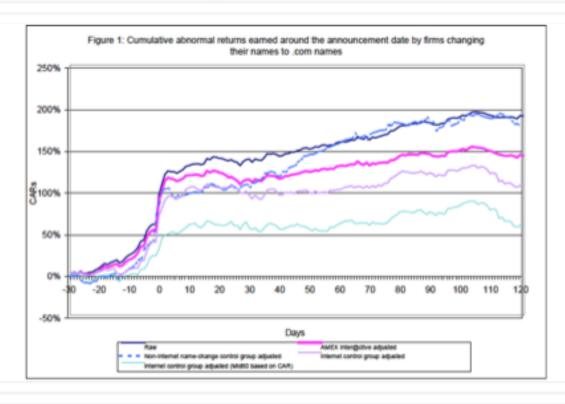
VALUE ENHANCEMENT AND THE EXPECTED VALUE OF CONTROL: BACK TO BASICS

Price Enhancement versus Value Enhancement

The market gives...



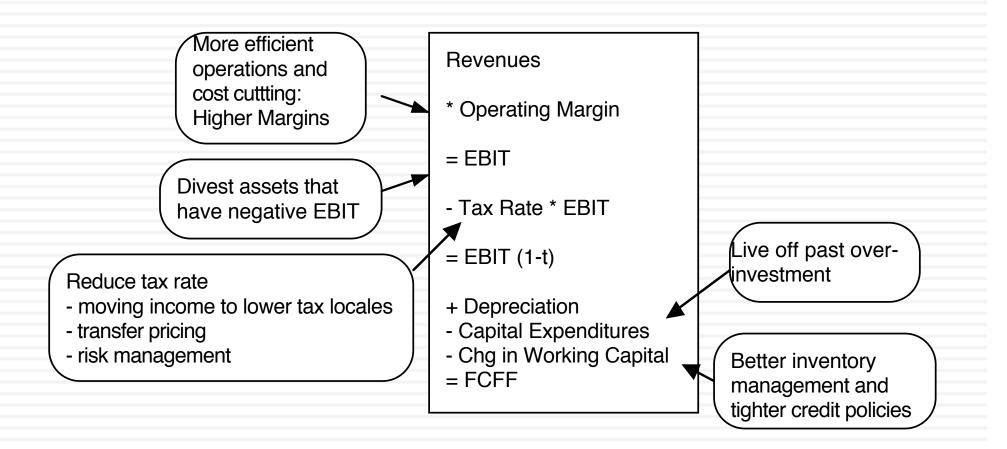
And takes away....



The Paths to Value Creation

- Using the DCF framework, there are four basic ways in which the value of a firm can be enhanced:
 - The cash flows from existing assets to the firm can be increased, by either
 - increasing after-tax earnings from assets in place or
 - reducing reinvestment needs (net capital expenditures or working capital)
 - The expected growth rate in these cash flows can be increased by either
 - Increasing the rate of reinvestment in the firm
 - Improving the return on capital on those reinvestments
 - The length of the high growth period can be extended to allow for more years of high growth.
 - The cost of capital can be reduced by
 - Reducing the operating risk in investments/assets
 - Changing the financial mix
 - Changing the financing composition

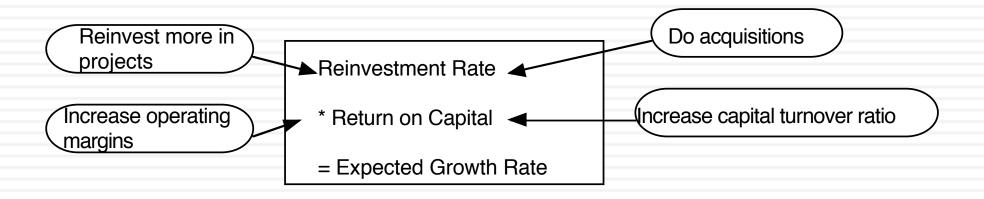
Value Creation 1: Increase Cash Flows from Assets in Place



Value Creation 2: Increase Value from Expected Growth

Pricing Strategies

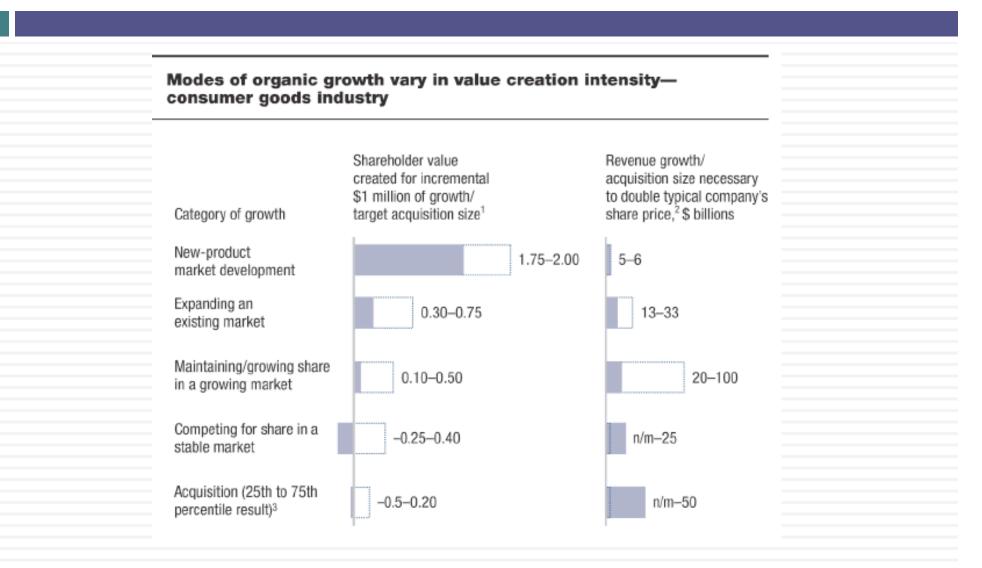
Price Leader versus Volume Leader Strategies
Return on Capital = Operating Margin * Capital Turnover Ratio



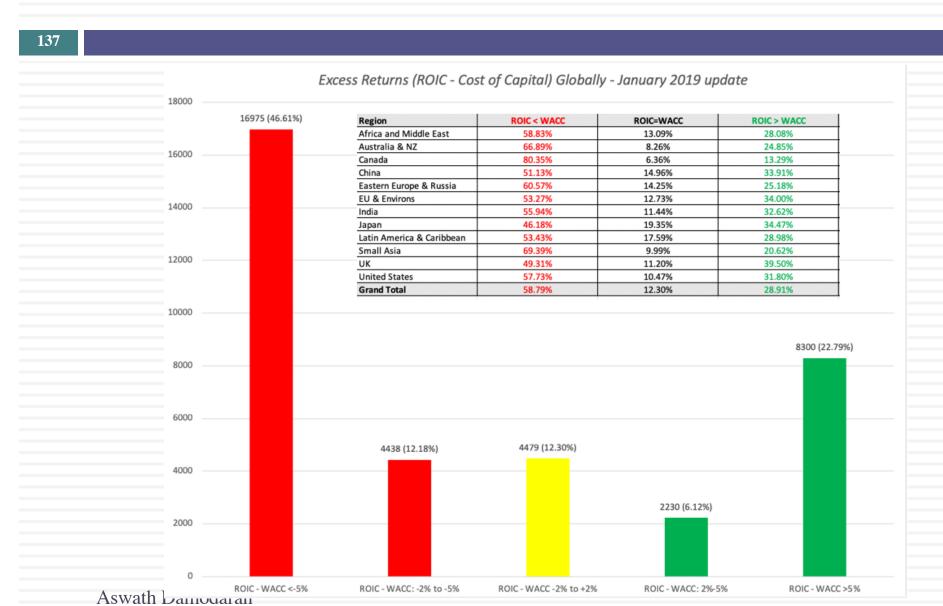
Game theory

How will your competitors react to your moves? How will you react to your competitors' moves?

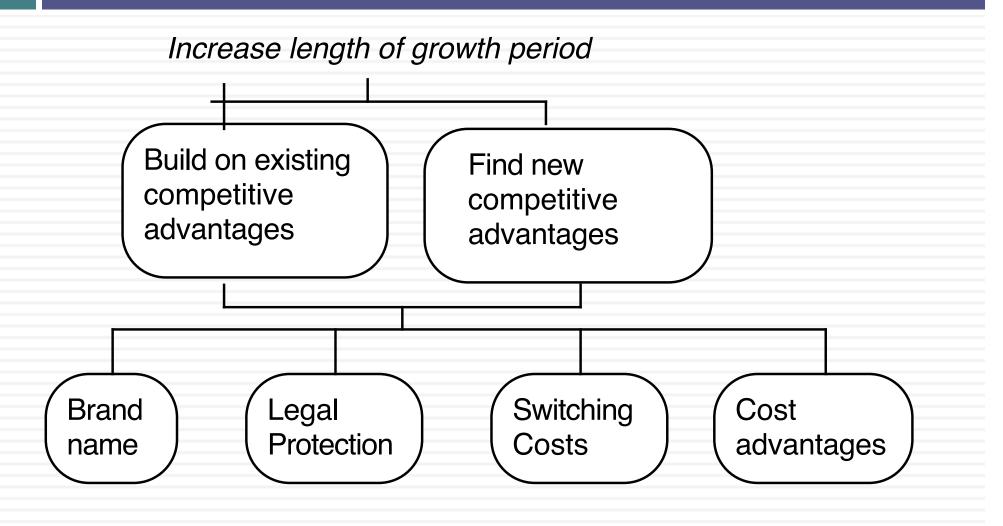
Value Creating Growth... Evaluating the Alternatives..



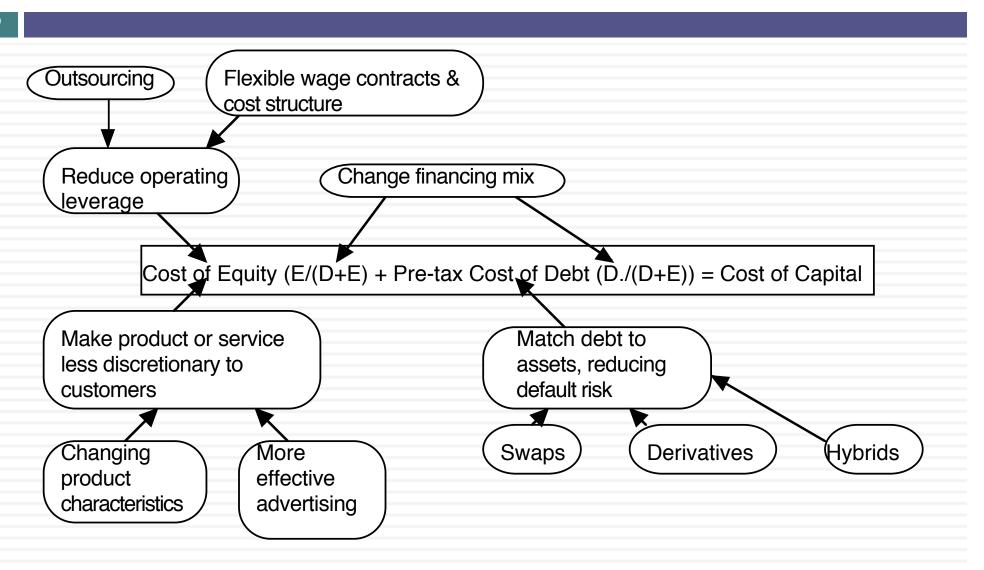
Sometimes, growing less is the answer...



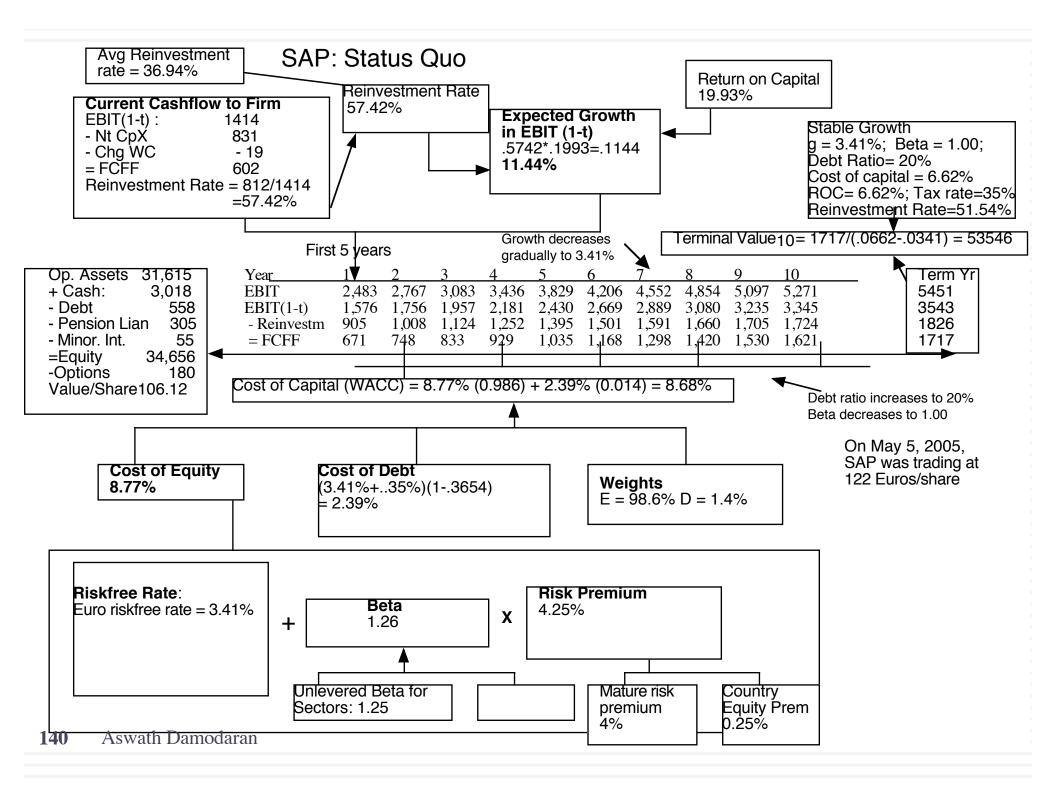
III. Building Competitive Advantages: Increase length of the growth period



Value Creation 4: Reduce Cost of Capital

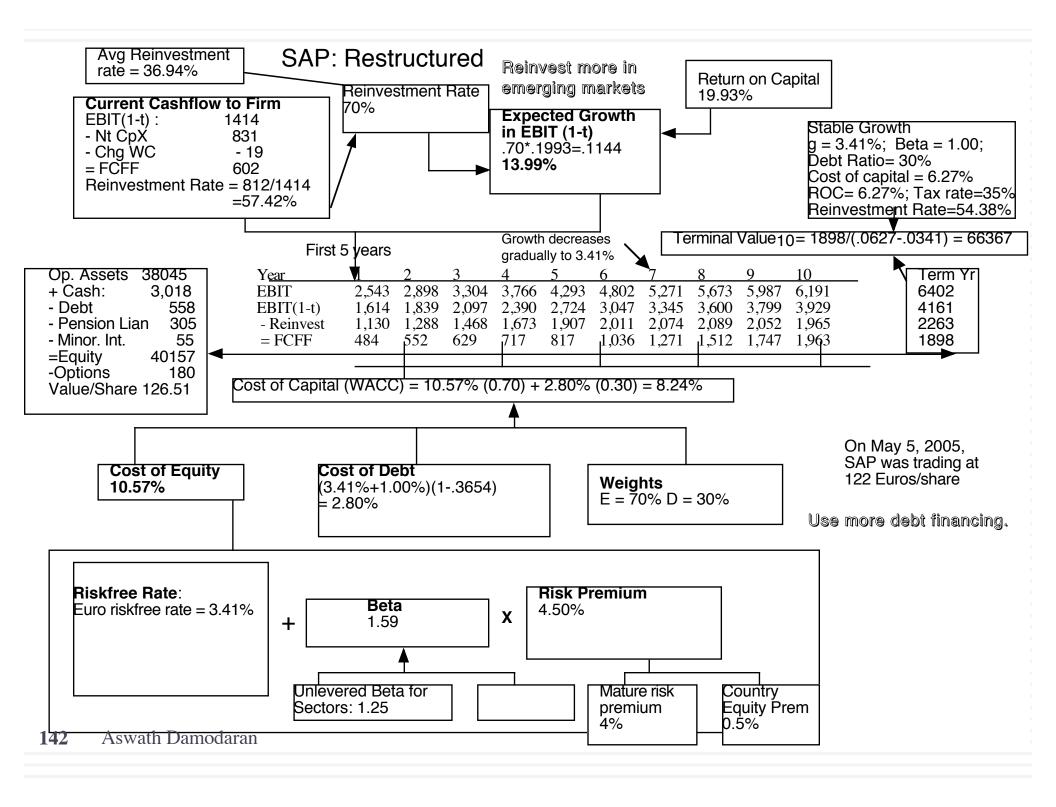


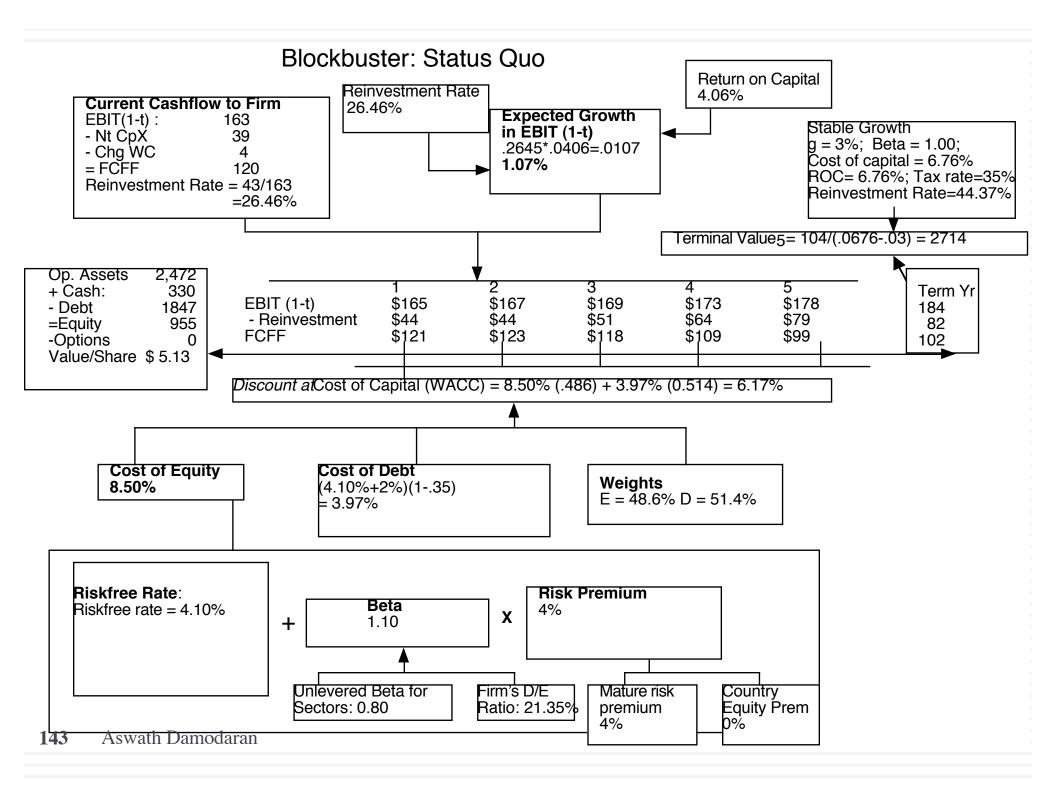
Aswath Damodaran

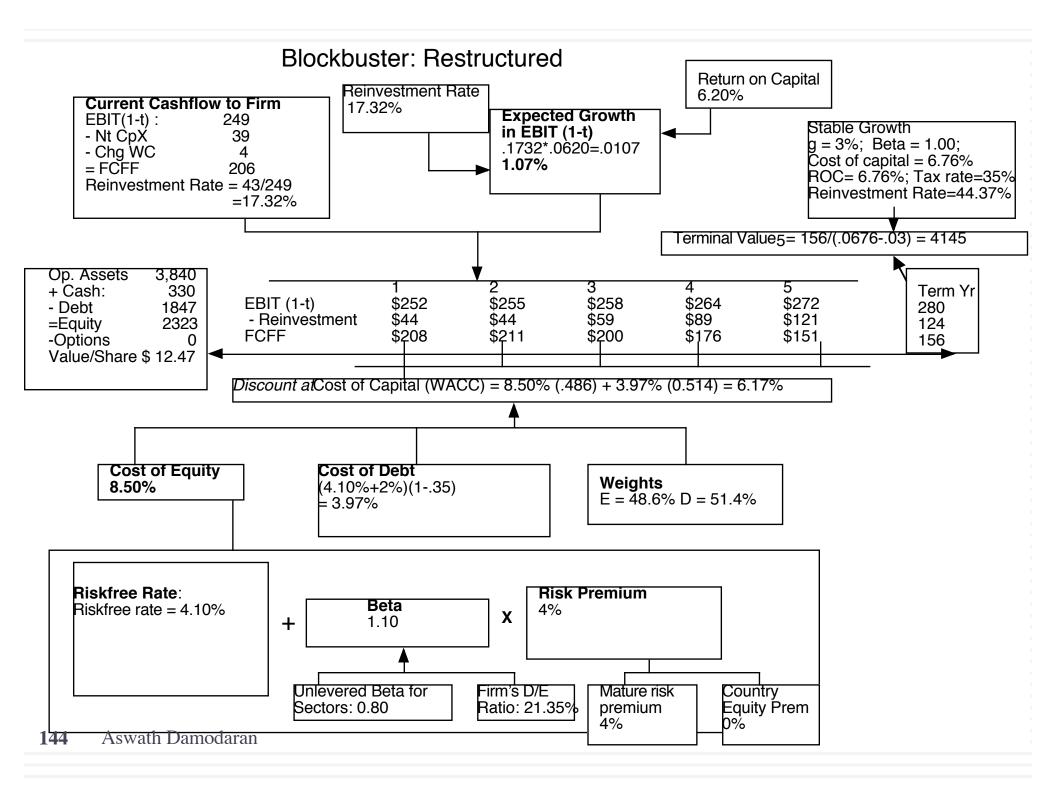


SAP: Optimal Capital Structure

Debt Ratio	Beta	Cost of Equity	Bond Rating	Interest rate on debt	Tax Rate	Cost of Debt (after-tax)	WACC	Firm Value (G)
0%	1.25	8.72%	AAA	3.76%	36.54%	2.39%	8.72%	\$39,088
10%	1.34	9.09%	AAA	3.76%	36.54%	2.39%	8.42%	\$41,480
20%	1.45	9.56%	A	4.26%	36.54%	2.70%	8.19%	\$43,567
30%	1.59	10.16%	A-	4.41%	36.54%	2.80%	7.95%	\$45,900
40%	1.78	10.96%	CCC	11.41%	36.54%	7.24%	9.47%	\$34,043
50%	2.22	12.85%	С	15.41%	22.08%	12.01%	12.43%	\$22,444
60%	2.78	15.21%	С	15.41%	18.40%	12.58%	13.63%	\$19,650
70%	3.70	19.15%	С	15.41%	15.77%	12.98%	14.83%	\$17,444
80%	5.55	27.01%	С	15.41%	13.80%	13.28%	16.03%	\$15,658
90%	11.11	50.62%	С	15.41%	12.26%	13.52%	17.23%	\$14,181

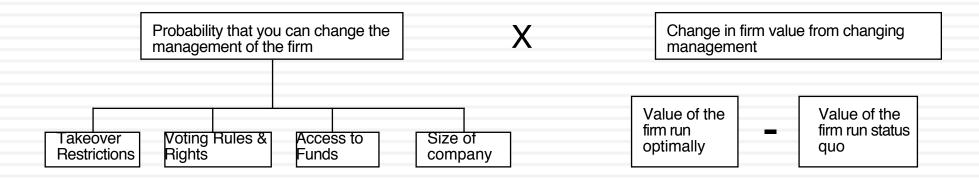






The Expected Value of Control

The Value of Control



Aswath Damodaran

Why the probability of management changing shifts over time....

- Corporate governance rules can change over time, as new laws are passed. If the change gives stockholders more power, the likelihood of management changing will increase.
- Activist investing ebbs and flows with market movements (activist investors are more visible in down markets) and often in response to scandals.
- Events such as <u>hostile acquisitions</u> can make investors reassess the likelihood of change by reminding them of the power that they do possess.

Estimating the Probability of Change

- You can estimate the probability of management changes by using historical data (on companies where change has occurred) and statistical techniques such as probits or logits.
- Empirically, the following seem to be related to the probability of management change:
 - Stock price and earnings performance, with forced turnover more likely in firms that have performed poorly relative to their peer group and to expectations.
 - Structure of the board, with forced CEO changes more likely to occur when the board is small, is composed of outsiders and when the CEO is not also the chairman of the board of directors.
 - Ownership structure, since forced CEO changes are more common in companies with high institutional and low insider holdings. They also seem to occur more frequently in firms that are more dependent upon equity markets for new capital.
 - Industry structure, with CEOs more likely to be replaced in competitive industries.

Manifestations of the Value of Control

- Hostile acquisitions: In hostile acquisitions which are motivated by control, the control premium should reflect the change in value that will come from changing management.
- Valuing publicly traded firms: The market price for every publicly traded firm should incorporate an expected value of control, as a function of the value of control and the probability of control changing.
 - Market value = Status quo value + (Optimal value Status quo value)*
 Probability of management changing
- Voting and non-voting shares: The premium (if any) that you would pay for a voting share should increase with the expected value of control.
- Minority Discounts in private companies: The minority discount (attached to buying less than a controlling stake) in a private business should be increase with the expected value of control.

1. Hostile Acquisition: Example

- In a hostile acquisition, you can ensure management change after you take over the firm. Consequently, you would be willing to pay up to the optimal value.
- As an example, Blockbuster was trading at \$9.50 per share in July 2005. The optimal value per share that we estimated as \$12.47 per share. Assuming that this is a reasonable estimate, you would be willing to pay up to \$2.97 as a premium in acquiring the shares.
- Issues to ponder:
 - Would you automatically pay \$2.97 as a premium per share? Why or why not?
 - What would your premium per share be if change will take three years to implement?

2. Market prices of Publicly Traded Companies: An example

- □ The market price per share at the time of the valuation (May 2005) was roughly \$9.50.
 - Expected value per share = Status Quo Value + Probability of control changing * (Optimal Value – Status Quo Value)
 - □ \$ 9.50 = \$ 5.13 + Probability of control changing (\$12.47 \$5.13)
- The market is attaching a probability of 59.5% that management policies can be changed. This was after Icahn's successful challenge of management. Prior to his arriving, the market price per share was \$8.20, yielding a probability of only 41.8% of management changing.

	Value of Equity	Value pershare
Status Quo	\$ 955 million	\$ 5.13 per share
Optimally mana ged	\$2,323 million	\$12.47 per share