Investing in Growth Stocks

A Modern Value Investing Perspective

Value Investing Principles

- Identify enterprises whose value as a business is reliably calculable by you (circle of competence)
- Among those enterprises, invest in those whose market price (equity plus debt) is below your calculated value by an appropriate margin of safety (1/3 to 1/2)

Value Investing Process

SEARCH

- Cheap
- Ugly
- Obscure
- · Otherwise Ignored

VALUATION

- Assets
- Earnings Power
- Franchise

REVIEW

- Key Issues
- Collateral Evidence
- Personal Biases

RISK MANAGEMENT

- Margin of Safety
- Some Diversification
- Patience Default Strategy

Shortcomings of NPV Approach in Practice

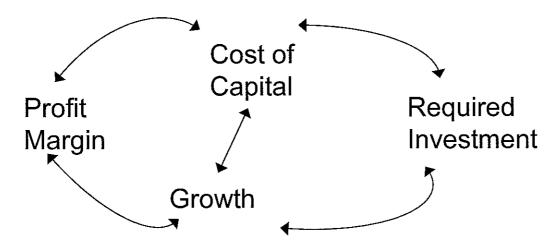
(1) Method of Combining Information

NPV =
$$CF_0 + CF_1 = \begin{pmatrix} 1 \\ 1 + R \end{pmatrix} + \dots + CF_{20} = \begin{pmatrix} 1 \\ 1 + R \end{pmatrix}^{20} + \dots$$
Good
Information
(Precise)

Bad Information
(Imprecise)

= Bad/Imprecise Information

(2) <u>Sensitivity Analysis is Based on Difficult-</u> <u>to-Forecast Parameters</u> which co-vary in fairly complicated ways



Valuation Assumptions

Traditional:

- Profit rate 6%
- Cost of capital 10%
- Investment/sales 60%
- Profit rate +3% (i.e. 9%)
- Growth rate 7% of sales, profits

Strategic:

- Industry is economically viable
- Entry is "Free" (no incumbent competitive advantage)
- Firm enjoys sustainable competitive advantage
- Competitive advantage is stable, firm grows with industry

Value Investing

Basic Approach to Valuation

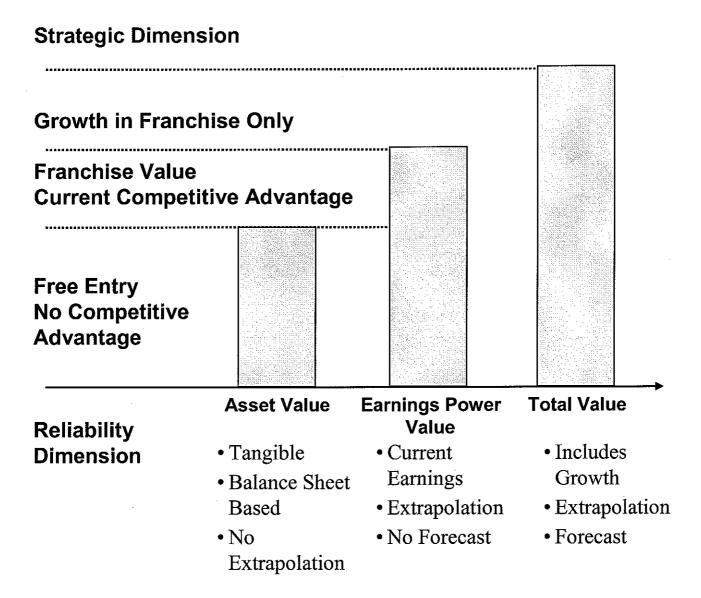
- "Know what you know"; Circle of competence
- 1. Organize valuation components by reliability

 Most Reliable

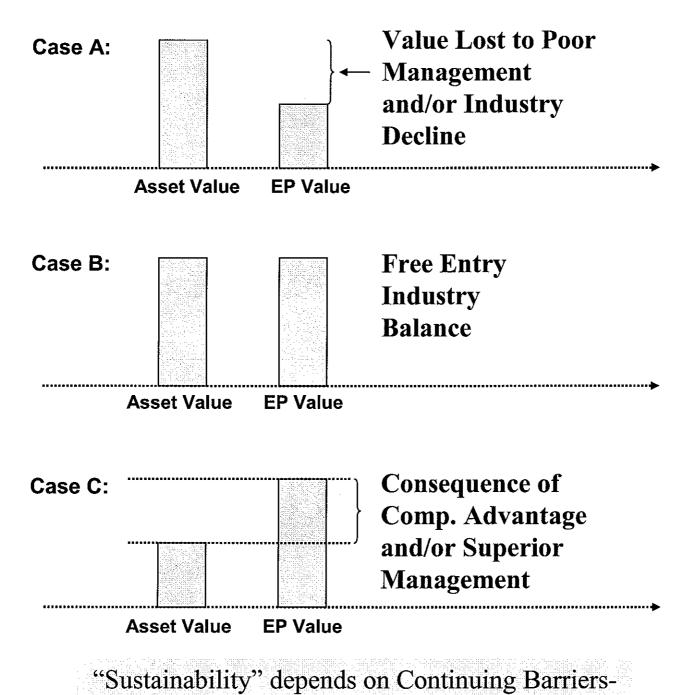
 Least Reliable
- 2. Organize valuation components by underlying strategic assumption

No Competitive — Growing Competitive Advantage Advantage

Basic Elements of Value



Earning Power and Entry - Exit



to-Entry

Total Value Including Growth

- Least reliable Forecast change not just stability (Earnings Power)
- Highly sensitive to assumptions
- Data indicates that investors systematically overpay for growth
- Strict value investors want growth for "Free" (Market Value < Earnings Power Value)

Value of Growth - Basic Algebra

Cash Flow of Growing Firm = "Earnings" - Necessary Investment

$$(CF_0)$$
 = ROC * Capital $_{Beg Yr}$ - G * Capital $_{Beg Yr}$
= $(ROC - G)$ * Capital $_{Beg Yr}$

Value of Growing Firm =
$$CF_0 * \frac{1}{R-G} = \frac{(ROC - G) * Capital_{Beg Yr}}{R-G}$$

$$= \frac{(ROC - G)}{R-G} Capital_{Beg Yr} WACC$$

Value of Growth Quantitative Effects

Investment:

• \$100 million

Cost of Funds: • 10% (R) = \$10M

Return on Investment (%)	5%	10%	20%
Return on Investment (\$)	\$5M	\$10M	\$20M
Cost of Investment	\$10M	\$10M	\$10M
Net Income Created	(\$5M)	0	\$10M
Net Value Created	(\$50M)	0	\$100M
Qualitative Impact:	Value Destroyed	No Value	Value Created
Situation:	Competitive Disadvantage	Level Playing Field	Competitive Advantage

Valuing Growth Basics

- Growth at a competitive disadvantage destroys value (AT&T in info processing)
- Growth on a level playing field neither creates nor destroys value (Wal-Mart in NE)
- Only franchise growth (at industry rate) creates value

Varieties of Competitive Advantage

<u>Producer (Cost) Supply</u> – Proprietary Technology or Resources

Consumer (Revenue) Demand – Customer Captivity

Economies-of-Scale (plus Customer Captivity)



Key to Sustainability

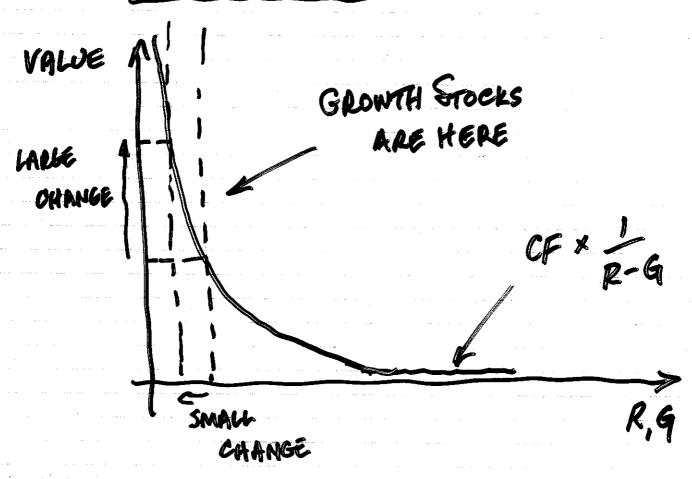
Sustainable Competitive Advantage implies market dominance.

Competitive Advantage Strategy Implications

- Analysis on a market-by-market basis
- Large global markets are difficult to dominate
- Local markets (Physical, product geography) are ones susceptible to domination
 - Microsoft (Apple, IBM)
 - Wal-Mart (Kmart, Circuit City)
 - Intel (Texas Instruments, et al)
 - Verizon (ATT, Sprint)
 - Pharmaceuticals

Evaluating Growth

THE FUNDAMENTAL PROBLEM



R =
$$106, G = 5\%$$
 MULTIPLE = $\frac{1}{10-5} = \frac{1}{5} = \frac{20}{5} \times \frac{1}{10-5} = \frac{1}{5} = \frac{10}{5} \times \frac{10}{5} \times \frac{10}{5} = \frac{10}{5} \times \frac{10}{5} \times \frac{10}{5} = \frac{10}{5} \times \frac{10}{5} \times \frac{10}{5} \times \frac{10}{5} = \frac{10}{5} \times \frac{10}{5} \times \frac{10}{5} \times \frac{10}{5} \times \frac{10}{5} = \frac{10}{5} \times \frac$

SOWTION: LOOK AT RETURNS

Procedure in Practice

- (1) Verify existence of franchise
 - i. History Returns Share Stability
 - ii. Sustainable competitive advantages
- (2) Calculate earnings return i.e. 1/PE
- (3) Identify cash distribution portion of earnings return

(Dividend + Repurchase)

(4) Identify organic (low investment) growth

(GDP±)

(5) Identify reinvestment return

(Multiple of Pct retained Earnings)

- (6) Compare to market return (D/P & growth)
- (7) Identify options positive/negative

Market Feturn

MARKET MONIPLE (SUSTAINABLE) = 15X

RETURN = 15 2 62% (FROM EMENINGS)

INFLATION VANUE = 2%

TOTAL = 8½%

DIVIDENDS + REPURCHASES = 22/3-3%

CAPITAL GAINS = PENFIT GLOWITH = 6DP GROWTH

2 5%

Toran Retuen = 724-8%

MET RETOLN = 8%.

Simple Examples Franchise Verification

Company	<u>Business</u>	Adjusted ROE
Wal-Mart	Discount Retail	22.5%
American Express	High-end Credit Cards & Services	45.50%
Gannett	Local Newspapers & Broadcasting	15.6%
Dell	Direct PC Supply to Large organizations	100.0% +

Simple Examples Franchise Verification

Sources of Competitive Advantage

Sources of Competitive Advantage

Company	Customer Captivity?	Economies-of-Scale?
Wal-Mart	Slight Customer Captivity	Local Economies-of- Scale
American Express	Customer Captivity	Some Economies-of- Scale
Gannett	Customer Captivity	Local Economies-of- Scale
Dell	Slight Customer Captivity	Economies-of-Scale

Gannett

WALMAR

PERMIT MULTIPLE = 17X => REPURN = 6%. DISTRIBUTION = 2% DREANIC GROWTH = GOP - THEOME GOOD -(SAME STORE SALES) = 42/2 - 24/2 - 1% REINVESTMENT : AMOUNT 4% Domestic = 15% Oversens = 5% HELAGE = 10% = COST OF GAPTIME VALUE = 4% Tork PETURN - 8% = MKT RETURN.

AMERICAN EXPRESS

MULTIPLE - 13X -> 7/2 PETOAN

DISTRIBUTION = 2/3 -> 5/2 GEH RETURN

Orbanic Growth = 6DP + Income Group + Services (Nember Bulines Cato Holder Spend)

- 457 + 27 + 27 = 10

REINVESTMENT: AMOUT: 22%

GOTOMER LOANS - MARGIN 927 (14-42)

LOES PARE 527 (AVERAGE)

REDEN 47/LOAN

LEVERAGE 8X

MET LEWEN 301/EQUITY

APTEL TOX 87/6 (2x COST CAPTITAL)

VALUE = 57/6 TOTAL RETURN - 17/6