Discussion of:

Does Shareholder Composition Affect Stock Returns? Evidence from Corporate Earnings Announcements

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Motivation

- Casual evidence suggests that some institutional investors trade "too strongly" in response to short term performance measures (such as quarterly earnings).
- This might cause managers to take actions which enhance short-term profitability, at the expense of long-term performance.
- Thus it is important to understand how shareholder makeup influences price reactions to new information.

Question:

- Do different shareholder types respond differently to the same information?
- HS address this question by looking at the relationship between:
 - 1. The types of *institutional holdings* of firms, and
 - 2. Stock price response to earnings surprises, or the *Earn-ings Response Coefficients* (ERC) for these firms.

Basic Findings

HS find that there is "considerable heterogeneity in institutional investors' response to new information."

- More specifically, HS find that the ERC's tend to be larger when a larger fraction of a firm's institutional holders (13(f)) are (1) momentum investors, (2) agressive-growth investors, (3) high-turnover investors, or (4) investment advisors.
- 2. In contrast, the ERC's tend to be lower when the firm has a higher fraction of value investors (and for negative surprises)
- 3. Abnormal returns around earnings surprises are positively related to the buying of momentum/agressive-growth/highturnover investors, and negatively related to the buying of value investors.
- 4. Trading volume and return volatility around earnings announcements is positively related to the fractional of institutional holders that are momentum/agressive-growth/highturnover investors.
- 5. Finally, momentum and high-turnover investors are more likely to also be Growth and Agressive Growth managers.

Interpretation of the Results

• HS interpret their evidence as giving an answer of *Yes* to the question in the title:

Does Shareholder Composition Affect Stock Returns?

• They note in the introduction that:

Anecdotally, there are numerous instances where a small shortfall in reported versus expected earnings leads to a substantial price decline, and institutional investors are often blamed for "overreacting" to earnings news. (p. 2)

– While they conclude that there is no evidence of "overreaction" to earnings news, they do say that the data is consistent with the hypothesis that:

ownership concentration of firms affects the market reaction to the releases of earnings information.

- I will present a slightly different interpretation of these results.
- I think that their evidence is strongly consistent with a Yes answer to the question:

Do Stock Returns Affect Shareholder Composition?

but not the reverse.

What determines ERC's

• In a standard Rational Expectations (RE) model:

$$P_{-} = E\left[\sum_{t=0}^{\infty} \frac{\widetilde{CF}_{t}}{(1+r)^{t}} | \Omega_{-}\right]$$
$$P_{+} = E\left[\sum_{t=0}^{\infty} \frac{\widetilde{CF}_{t}}{(1+r)^{t}} | \Omega_{-} \cup e_{0}\right]$$

- If the earnings surprise $(e_0 E_-[e_0])$ is zero, the announcement return will be zero by iterated expectations.
- If e_0 differs from $E_{-}[e_0]$, this will result in a revision in the expected cash-flows, and consequently a non-zero announcement return.
- The magnitude of the price revision will clearly depend on a number of factors, and will vary cross-sectionally
 - Cross-sectional variation in the earnings response is fully consistent with this rational-expectations model.
 - Note that this also implies that the announcement date return variance will be higher for high growth firms, consistent with the findings here.

How should ERC's Vary Across Firms?

- Firms have a *liquidation* or *abandonment* option,
 - they can close down any ongoing projects and sell off the firm's assets for their liquidation value.
- The firm's share price as a function of the expected future cash-flows from its future projects, therefore looks like this:

- Thus, growth firms should be far more sensitive, and value firms far less sensitive, to news about future project cash flows
 - Hayn (1995, $J\!AE$) presents evidence that this is a major determinant of ERC's.
- Interestingly, HS control for book-to-market, and dividend yield, but find that institutional investor makeup still has ability to explain price responses.

- suggests that investor makeup is a superior proxy for this.

Changes in Makeup of Institutional Investors

- Thus, the standard rational model explains why the ERC for growth stocks should be far higher than for value.
- However, HS also show that there is a strong relationship between the price response and the amount of buying/selling by growth and value investors *in the surrounding quarter*.
 - Price declines are larger when selling by growth/momentum investors (relative to other instituions) is larger.
 - However, note that it is also the case that price declines are smaller when value investors sell.
- An alternative interpretation of the causality again seems reasonable here:
 - Follwing a big stock price decline, growth investors sell and value investors buy
 - Why? Following a big stock price decline, a growth stock becomes a value stock (or even more of a value stock).

Should Momentum investors invest in growth stocks?

- Finally, HS evidence suggests that growth and agressive growth managers are also momentum/high-turnover investors
- (Rational) momentum investors should invest in higher momentum stocks.
- This is consistent with evidence that (return) momentum is strong only for growth stocks:
 - From Daniel & Titman (FAJ, 1999), the Returns of Bookto-Market and Momentum Sorted Portfolios are:

Raw Returns, All Size Quintiles, 1963:07-1997:12							
	Low		$\mathbf{B}\mathbf{M}$		High	H - L	T-stat
Low	0.454	0.713	1.067	1.166	1.389	0.935	(5.286)
	0.728	0.980	1.137	1.288	1.455	0.727	(4.748)
M-m	0.922	1.058	1.174	1.298	1.369	0.447	(2.730)
	1.043	1.141	1.162	1.364	1.400	0.357	(1.930)
High	1.206	1.418	1.369	1.511	1.494	0.288	(1.449)
H - L	0.752	0.705	0.302	0.345	0.105	HH-LL	
T-stat	(3.838)	(4.027)	(1.866)	(2.180)	(0.587)	1.0398	(5.656)

• This table for return momentum, be different for earningsrelated momentum.