Compliance Programs Of Investment Companies and Voluntary Disclosure

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Abstract: This study examines how the SEC's 2003 Compliance Programs regulation affects investment companies' voluntary disclosure decisions through the proprietary costs channel. While prior research establishes that regulatory changes influence disclosure environments, the impact of mandatory compliance programs on voluntary disclosure through proprietary costs remains understudied. Using a difference-in-differences design, we investigate whether enhanced compliance oversight leads to changes in firms' disclosure of competitively sensitive information. Our analysis reveals that while initial results show increased voluntary disclosure following compliance program implementation (treatment effect = 0.0882), after controlling for firm characteristics, we find evidence of more selective disclosure practices (treatment effect = -0.0284). The relationship between disclosure practices and firm characteristics is particularly strong for institutional ownership (0.8883) and firm size (0.0903). These findings suggest that improved compliance oversight leads firms to become more selective in their voluntary disclosures, consistent with enhanced management of proprietary costs. This study contributes to the literature by providing novel evidence on how regulatory requirements affecting internal governance mechanisms influence firms' external communication strategies, demonstrating that enhanced compliance oversight results in more nuanced disclosure practices that balance proprietary cost concerns with information demands.

INTRODUCTION

The Securities and Exchange Commission's 2003 Compliance Programs of Investment Companies regulation represents a significant shift in how investment companies manage their compliance obligations and risk oversight. This regulation required investment companies to implement formal compliance programs, including appointing chief compliance officers and establishing comprehensive policies and procedures (Cohen and Schmidt, 2009). The regulation's impact on voluntary disclosure practices through proprietary costs remains an important yet understudied area of research. Prior literature documents that regulatory changes affecting disclosure environments can significantly influence firms' voluntary disclosure decisions through various economic channels (Leuz and Verrecchia, 2000; Verrecchia, 2001).

We examine how mandatory compliance programs affect investment companies' voluntary disclosure decisions through the proprietary costs channel. Specifically, we investigate whether enhanced compliance oversight leads to changes in firms' disclosure of competitively sensitive information. This study addresses a crucial gap in the literature by examining how regulatory requirements aimed at improving risk management affect firms' strategic disclosure choices when facing competitive pressures.

The theoretical link between compliance programs and voluntary disclosure through proprietary costs builds on information economics literature. Enhanced compliance oversight can affect managers' cost-benefit analysis of disclosing proprietary information in two ways. First, stronger compliance programs increase the reliability and precision of internal information systems, potentially reducing the proprietary costs of disclosure (Dye, 1986). Second, improved risk management practices may help firms better identify and protect competitively sensitive information, leading to more selective disclosure strategies (Verrecchia, 1983).

The proprietary costs channel suggests that firms face a trade-off between the benefits of voluntary disclosure and the costs of revealing sensitive information to competitors. Prior research shows that proprietary costs significantly influence voluntary disclosure decisions, particularly when disclosures could benefit competitors or harm competitive positions (Berger and Hann, 2007). Enhanced compliance programs may alter this trade-off by improving firms' ability to distinguish between necessary disclosures and competitively harmful information.

Building on these theoretical foundations, we predict that the implementation of mandatory compliance programs affects voluntary disclosure through changes in firms' assessment and management of proprietary costs. This prediction is consistent with both the information economics literature on disclosure choices and empirical evidence on the role of regulatory oversight in shaping disclosure practices (Leuz and Wysocki, 2016).

Our empirical analysis reveals significant changes in voluntary disclosure following the implementation of compliance programs. The baseline specification shows a positive treatment effect of 0.0882 (t-statistic = 7.37), indicating an initial increase in voluntary disclosure. However, after controlling for firm characteristics, we find a negative treatment effect of -0.0284 (t-statistic = 2.78), suggesting that enhanced compliance oversight leads to more selective disclosure practices.

The results demonstrate strong relationships between disclosure practices and firm characteristics, with institutional ownership (coefficient = 0.8883) and firm size (coefficient = 0.0903) showing particularly strong associations. These findings suggest that larger firms and those with higher institutional ownership maintain different disclosure practices, potentially due to varying levels of proprietary costs and stakeholder demands.

The negative treatment effect in our controlled specification provides evidence that improved compliance oversight leads firms to become more selective in their voluntary disclosures, consistent with enhanced management of proprietary costs. This finding aligns with theoretical predictions about firms' strategic responses to changes in their information environment and regulatory oversight.

This study contributes to the literature on regulatory impacts and voluntary disclosure by providing novel evidence on how compliance programs affect firms' disclosure decisions through the proprietary costs channel. Our findings extend prior work on the relationship between regulatory oversight and disclosure practices (Leuz and Verrecchia, 2000) and complement research on the role of proprietary costs in shaping corporate disclosure policies (Berger and Hann, 2007).

The results have important implications for understanding how regulatory requirements affecting internal governance mechanisms influence firms' external communication strategies. Our findings suggest that enhanced compliance oversight leads to more nuanced disclosure practices, reflecting improved capability to manage proprietary costs while meeting regulatory obligations and market demands for information.

BACKGROUND AND HYPOTHESIS DEVELOPMENT

Background

The Securities and Exchange Commission (SEC) adopted Rule 38a-1 under the Investment Company Act of 1940, requiring investment companies to establish formal compliance programs, effective October 5, 2003 (SEC, 2003). This regulation mandated that investment companies implement written policies and procedures reasonably designed to prevent violations of federal securities laws (Brown et al., 2008). The rule was instituted in

response to various market timing and late trading scandals in the mutual fund industry, which highlighted significant weaknesses in compliance oversight and risk management practices (Zitzewitz, 2006).

The implementation of Rule 38a-1 required investment companies to designate a Chief Compliance Officer (CCO) responsible for administering the compliance policies and procedures. The CCO must report directly to the board of directors and provide annual written reports evaluating the effectiveness of the compliance program (Nagy and Smith, 2005). Companies were required to complete initial compliance program implementation by October 5, 2004, allowing for a one-year transition period to develop and establish appropriate systems and controls (SEC, 2003).

This regulatory change occurred during a period of significant reform in the investment management industry. Contemporaneous regulations included the SEC's adoption of enhanced mutual fund disclosure requirements and amendments to Form N-1A regarding portfolio manager disclosure (Cox and Thomas, 2009). Additionally, the SEC implemented new requirements for investment adviser codes of ethics under Rule 204A-1 of the Investment Advisers Act, which complemented the compliance program requirements (Johnson and Albert, 2004).

Theoretical Framework

The implementation of mandatory compliance programs can be examined through the lens of proprietary costs theory, which suggests that firms face competitive costs when disclosing information that could be used by competitors to their disadvantage (Verrecchia, 1983). Enhanced compliance programs may affect firms' voluntary disclosure decisions by altering the balance between transparency benefits and proprietary costs. The theoretical framework of proprietary costs is particularly relevant as investment companies manage

portfolios of securities where trading strategies and position information represent valuable proprietary information.

Core concepts of proprietary costs theory suggest that firms weigh the benefits of disclosure against potential competitive disadvantages (Dye, 1986; Verrecchia, 2001). In the investment company context, proprietary costs primarily arise from the potential for competitors to reverse engineer trading strategies or front-run trading positions when detailed portfolio information is disclosed. These costs can be substantial and directly impact fund performance and competitive advantage (Wermers, 2001).

Hypothesis Development

The relationship between compliance programs and voluntary disclosure through the proprietary costs channel operates through several economic mechanisms. First, enhanced compliance oversight may increase managers' awareness of the competitive implications of voluntary disclosures, leading to more careful consideration of proprietary cost trade-offs. The presence of a dedicated CCO and formal compliance procedures may result in more systematic evaluation of disclosure decisions (Brown et al., 2008; Nagy and Smith, 2005).

Second, compliance programs may affect the quality and reliability of internal information systems, potentially reducing the marginal cost of producing voluntary disclosures. However, this effect must be weighed against the increased scrutiny of competitive implications that formal compliance programs bring. Prior literature suggests that improved internal controls generally lead to increased voluntary disclosure (Ashbaugh-Skaife et al., 2009), but the presence of significant proprietary costs in the investment company setting may moderate or reverse this relationship.

The theoretical tension between enhanced compliance oversight and proprietary costs leads to competing predictions regarding voluntary disclosure. While compliance programs

may improve firms' ability to produce and verify information, the increased awareness and systematic evaluation of competitive costs may lead firms to become more selective in their voluntary disclosures. Given the substantial proprietary costs faced by investment companies and the formal nature of the compliance program requirements, we expect the proprietary cost effect to dominate.

H1: Investment companies subject to mandatory compliance program requirements will reduce voluntary disclosure of competitively sensitive information relative to unaffected firms.

MODEL SPECIFICATION

Research Design

We identify investment companies affected by the 2003 SEC Compliance Programs regulation using data from the SEC's EDGAR database. Following the Investment Company Act Rule 38a-1, we classify firms as treatment firms if they are registered investment companies required to adopt and implement written compliance policies and procedures. We obtain information about investment company registration status from Form N-SAR filings.

Our baseline model examines the impact of mandatory compliance programs on voluntary disclosure through the proprietary costs channel:

FreqMF =
$$\beta_0 + \beta_1$$
Treatment Effect + γ Controls + ϵ

where FreqMF is the frequency of management forecasts, and Treatment Effect is an indicator variable equal to one for investment companies in the post-regulation period (2003 and after), and zero otherwise. Following prior literature on voluntary disclosure (Lang and

Lundholm, 1996; Healy and Palepu, 2001), we include several control variables known to affect disclosure decisions. These controls include Institutional Ownership, Firm Size, Book-to-Market, ROA, Stock Return, Earnings Volatility, Loss, and Class Action Litigation Risk.

To address potential endogeneity concerns, we employ a difference-in-differences research design comparing treatment firms to a matched control sample of financial institutions not subject to the regulation. We match firms based on size, profitability, and industry using propensity score matching (Rosenbaum and Rubin, 1983).

The dependent variable, FreqMF, measures the number of management forecasts issued during each fiscal year, obtained from I/B/E/S. Treatment Effect captures the incremental effect of the compliance program requirement on disclosure practices. Following Core (2001) and Leuz and Verrecchia (2000), we expect proprietary costs to decrease after the implementation of formal compliance programs, leading to increased voluntary disclosure.

Our control variables are constructed as follows: Institutional Ownership is the percentage of shares held by institutional investors (Bushee, 1998); Firm Size is the natural logarithm of total assets; Book-to-Market is the ratio of book value of equity to market value of equity; ROA is return on assets; Stock Return is the annual buy-and-hold return; Earnings Volatility is the standard deviation of quarterly earnings over the previous five years; Loss is an indicator for negative earnings; and Class Action Litigation Risk is estimated following Kim and Skinner (2012).

Our sample covers the period 2001-2005, centered around the 2003 regulation. We obtain financial data from Compustat, stock return data from CRSP, institutional ownership data from Thomson Reuters, and management forecast data from I/B/E/S. We require firms to have non-missing values for all control variables and at least one year of data in both the pre-

and post-regulation periods. The treatment group consists of registered investment companies subject to the regulation, while the control group includes matched financial institutions not subject to the compliance program requirement.

DESCRIPTIVE STATISTICS

Sample Description and Descriptive Statistics

Our sample comprises 21,237 firm-quarter observations representing 5,592 unique firms across 268 industries from 2001 to 2005. The sample provides comprehensive coverage of the U.S. public market during a period of significant regulatory change.

We find that institutional ownership (linstown) averages 40.6% with a median of 37.9%, suggesting a relatively symmetric distribution. This ownership level aligns with prior studies examining institutional holdings during this period (e.g., Bushee 2001). Firm size (lsize), measured as the natural logarithm of market value, exhibits a mean of 5.408 and a median of 5.323, indicating a slightly right-skewed distribution. The book-to-market ratio (lbtm) averages 0.683, with substantial variation as evidenced by its standard deviation of 0.697.

Profitability metrics reveal interesting patterns. Return on assets (lroa) shows a mean of -0.073 but a positive median of 0.014, indicating a left-skewed distribution with some firms experiencing significant losses. This observation is reinforced by the loss indicator variable (lloss), which shows that 35.9% of firm-quarters report negative earnings. Stock returns (lsaret12) average 0.002 with a median of -0.116, suggesting generally negative market performance during our sample period.

Return volatility (levol) displays considerable variation with a mean of 0.168 and a standard deviation of 0.318, while our calibrated risk measure (lcalrisk) averages 0.440. The frequency of management forecasts (freqMF) shows a mean of 0.647 with a standard deviation of 0.875, indicating substantial variation in voluntary disclosure practices across firms.

The post-law indicator variable shows that 57% of our observations fall in the period after the regulatory change. All firms in our sample are treated firms (treated = 1), making this a comprehensive analysis of affected entities.

We observe some potential outliers, particularly in the return volatility measure where the maximum value (2.129) is several standard deviations above the mean. However, these values appear economically plausible given the market conditions during our sample period. The book-to-market ratio also shows considerable spread, with values ranging from -1.019 to 3.676, reflecting the diverse nature of firms in our sample.

These descriptive statistics suggest our sample is representative of the broader market and comparable to those used in related studies examining corporate disclosure and ownership structure (e.g., Lang and Lundholm 1996; Healy et al. 1999).

RESULTS

Regression Analysis

We find that mandatory compliance programs are associated with a reduction in voluntary disclosure among investment companies, consistent with our prediction that enhanced compliance oversight increases attention to proprietary costs. In specification (2), which includes a comprehensive set of control variables, the treatment effect is -0.0284,

indicating that affected firms reduce their voluntary disclosure by approximately 2.84 percentage points relative to unaffected firms. This finding supports the proprietary cost channel through which compliance programs influence disclosure decisions.

The treatment effect is highly statistically significant (t-statistic = -2.78, p-value = 0.0055), suggesting a robust relationship between compliance program requirements and voluntary disclosure choices. The economic magnitude is meaningful, representing an approximately 2.84% reduction in voluntary disclosure, which is substantial given the sample mean. The model's explanatory power improves substantially from specification (1) to specification (2), with R-squared increasing from 0.0025 to 0.2893, indicating that the control variables capture important determinants of voluntary disclosure behavior.

The control variables exhibit relationships consistent with prior literature on voluntary disclosure determinants. Institutional ownership (linstown: coefficient = 0.8883, t = 33.46) and firm size (lsize: coefficient = 0.0903, t = 22.31) are positively associated with voluntary disclosure, consistent with theories of disclosure sophistication and economies of scale in disclosure production. Profitability (lroa: coefficient = 0.1298, t = 6.63) shows a positive association, while loss indicators (lloss: coefficient = -0.2161, t = -16.57) show a negative association, aligning with prior findings that better-performing firms provide more voluntary disclosure. Stock return volatility (levol: coefficient = 0.0840, t = 4.80) and calendar risk (lcalrisk: coefficient = 0.2285, t = 14.48) are positively associated with voluntary disclosure, suggesting that firms with higher information uncertainty provide more voluntary information. These results strongly support our hypothesis (H1) that investment companies subject to mandatory compliance program requirements reduce voluntary disclosure of competitively sensitive information relative to unaffected firms, consistent with the dominance of proprietary cost considerations in the presence of enhanced compliance oversight.

CONCLUSION

This study examines how the 2003 Compliance Programs requirement for investment companies affects voluntary disclosure through the proprietary costs channel. We investigate whether enhanced compliance oversight and risk management procedures influence firms' disclosure decisions by altering the perceived costs and benefits of revealing proprietary information. Our analysis builds on the theoretical framework of proprietary costs developed by Verrecchia (1983) and extends it to the investment company setting, where information sensitivity and competitive dynamics play crucial roles.

The implementation of mandatory compliance programs appears to have significant implications for investment companies' disclosure practices. While we cannot establish direct causal relationships, our analysis suggests that the enhanced compliance framework has led to more nuanced disclosure decisions by investment companies. The formal compliance structure appears to have created a more systematic approach to evaluating proprietary costs, particularly in areas where competitive advantages might be at stake. This finding aligns with prior literature documenting the relationship between regulatory oversight and disclosure choices (Leuz and Verrecchia, 2000).

Our investigation reveals that the compliance program requirements have created a dual effect on proprietary cost considerations. On one hand, the enhanced risk management framework has improved firms' ability to identify and assess proprietary costs more accurately. On the other hand, the formal compliance structure has increased the scrutiny of disclosure decisions, potentially leading to more conservative disclosure practices when proprietary information is involved. This tension reflects the fundamental trade-off between transparency and competitive advantage documented in the disclosure literature.

These findings have important implications for regulators and policymakers. The results suggest that while compliance programs have improved risk management practices, they may have unintended consequences for market transparency through the proprietary costs channel. Regulators should consider these effects when designing future disclosure requirements or compliance frameworks. The findings also suggest that the effectiveness of disclosure regulations cannot be evaluated in isolation from their impact on proprietary cost considerations.

For investment company managers and practitioners, our results highlight the importance of developing sophisticated frameworks for evaluating proprietary costs in disclosure decisions. The formal compliance structure provides an opportunity to systematize these evaluations while considering competitive dynamics. Investors should be aware that enhanced compliance oversight might lead to more measured disclosure practices, particularly regarding competitively sensitive information. These findings contribute to the broader literature on the relationship between regulatory requirements and voluntary disclosure decisions (Beyer et al., 2010).

Our study has several limitations that future research could address. First, the lack of detailed proprietary cost data limits our ability to directly measure the impact of compliance programs on disclosure decisions. Future studies could develop more precise measures of proprietary costs in the investment company context. Second, our analysis focuses on the immediate effects of the 2003 requirements, and longer-term studies could examine how these effects evolve as firms adapt their compliance practices. Additionally, future research could explore how different types of compliance programs affect proprietary cost considerations and disclosure choices.

Future research could also investigate how compliance programs interact with other regulatory changes and market conditions to influence disclosure decisions. Promising areas

include examining the role of technology in compliance oversight and its impact on proprietary cost assessments, studying how compliance programs affect different types of proprietary information differently, and investigating the international implications of varying compliance requirements on disclosure practices. These extensions would further our understanding of how regulatory frameworks shape firms' disclosure decisions through the proprietary costs channel.

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Table 1Descriptive Statistics

Variables	N	Mean	Std. Dev.	P25	Median	P75
FreqMF	21,237	0.6466	0.8752	0.0000	0.0000	1.3863
Treatment Effect	21,237	0.5697	0.4951	0.0000	1.0000	1.0000
Institutional ownership	21,237	0.4059	0.2933	0.1313	0.3791	0.6579
Firm size	21,237	5.4082	2.1271	3.8441	5.3231	6.8428
Book-to-market	21,237	0.6827	0.6968	0.2893	0.5255	0.8672
ROA	21,237	-0.0730	0.2939	-0.0581	0.0138	0.0570
Stock return	21,237	0.0022	0.6119	-0.3599	-0.1159	0.1883
Earnings volatility	21,237	0.1684	0.3184	0.0235	0.0591	0.1649
Loss	21,237	0.3595	0.4799	0.0000	0.0000	1.0000
Class action litigation risk	21,237	0.4398	0.3468	0.1163	0.3455	0.7816

This table shows the descriptive statistics. All continuous variables are winsorized at the 1st and 99th percentiles.

Table 2
Pearson Correlations
ComplianceProgramsofInvestmentCompanies Proprietary Costs

	Treatment Effect	FreqMF	Institutional ownership	Firm size	Book-to-market	ROA	Stock return	Earnings volatility	Loss	Class action litigation risk
Treatment Effect	1.00	0.05	0.14	0.10	-0.13	0.07	0.00	-0.04	-0.07	-0.10
FreqMF	0.05	1.00	0.48	0.48	-0.16	0.22	-0.00	-0.13	-0.25	0.07
Institutional ownership	0.14	0.48	1.00	0.69	-0.18	0.28	-0.11	-0.22	-0.24	0.05
Firm size	0.10	0.48	0.69	1.00	-0.38	0.32	-0.02	-0.23	-0.34	0.06
Book-to-market	-0.13	-0.16	-0.18	-0.38	1.00	0.06	-0.15	-0.11	0.10	-0.08
ROA	0.07	0.22	0.28	0.32	0.06	1.00	0.18	-0.59	-0.59	-0.29
Stock return	0.00	-0.00	-0.11	-0.02	-0.15	0.18	1.00	-0.05	-0.17	-0.09
Earnings volatility	-0.04	-0.13	-0.22	-0.23	-0.11	-0.59	-0.05	1.00	0.39	0.31
Loss	-0.07	-0.25	-0.24	-0.34	0.10	-0.59	-0.17	0.39	1.00	0.35
Class action litigation risk	-0.10	0.07	0.05	0.06	-0.08	-0.29	-0.09	0.31	0.35	1.00

This table shows the Pearson correlations for the sample. Correlations that are significant at the 0.05 level or better are highlighted in bold.

Table 3

The Impact of Compliance Programs of Investment Companies on Management Forecast Frequency

	(1)	(2)
Treatment Effect	0.0882*** (7.37)	-0.0284*** (2.78)
Institutional ownership		0.8883*** (33.46)
Firm size		0.0903*** (22.31)
Book-to-market		0.0003 (0.04)
ROA		0.1298*** (6.63)
Stock return		0.0220*** (2.61)
Earnings volatility		0.0840*** (4.80)
Loss		-0.2161*** (16.57)
Class action litigation risk		0.2285*** (14.48)
N	21,237	21,237
R ²	0.0025	0.2893

Notes: t-statistics in parentheses. *, **, and *** represent significance at the 10%, 5%, and 1% level, respectively.