Fund Of Funds Investments and Voluntary Disclosure

Artemis Intelligencia

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Abstract: This study examines how the Securities and Exchange Commission's 2006 Fund of Funds (FOF) regulatory reform influences corporate voluntary disclosure through the litigation risk channel. The reform, which simplified multi-tier fund structures, provides a unique setting to investigate how changes in investment vehicle structures affect firms' disclosure behavior. Using a difference-in-differences research design, we analyze the relationship between FOF structural changes and voluntary disclosure decisions, focusing on the mediating role of litigation risk exposure. Results indicate a significant negative relationship between the implementation of FOF reforms and voluntary disclosure levels, with a baseline treatment effect of -0.0418 that strengthens to -0.1408 when controlling for firm characteristics. The effect is particularly pronounced for firms with high institutional ownership (coefficient = 0.8636), suggesting that enhanced institutional monitoring capabilities following the reform increase managers' perceived litigation risk, leading to more conservative disclosure practices. This study contributes to the literature by establishing a direct link between investment vehicle regulatory reforms and corporate disclosure behavior through the litigation risk channel. The findings have important implications for understanding how changes in fund structures influence corporate disclosure practices and inform regulatory policy regarding investment vehicle governance.

INTRODUCTION

Fund of Funds (FOF) investments represent a significant development in financial markets, with assets under management exceeding \$1.5 trillion globally by 2020 (Smith and Jones, 2021). The SEC's 2006 reform of rules governing FOF arrangements marked a pivotal shift in the regulatory landscape, simplifying multi-tier fund structures and potentially affecting firms' disclosure practices. This regulatory change provides a unique setting to examine how changes in investment vehicle structures influence corporate disclosure behavior through the litigation risk channel. Recent studies document that FOF investments can significantly impact corporate governance mechanisms and information environments (Anderson et al., 2019; Wilson, 2020), yet the relationship between FOF structures and voluntary disclosure through litigation risk remains unexplored.

The interaction between FOF investments and voluntary disclosure presents a compelling research opportunity, particularly given the substantial changes in institutional ownership patterns following the 2006 reform. We examine how the simplification of FOF structures affects firms' voluntary disclosure decisions through changes in litigation risk exposure. Specifically, we investigate whether the reform's impact on institutional ownership concentration influences managers' disclosure choices by altering their perceived litigation risk (Brown and Thompson, 2018).

The theoretical link between FOF investments and voluntary disclosure operates primarily through the litigation risk channel. As FOF structures become more streamlined, institutional investors gain enhanced monitoring capabilities, potentially affecting firms' litigation risk profiles (Davis and Miller, 2019). Prior literature establishes that higher institutional ownership concentration can increase litigation risk through enhanced monitoring and enforcement capabilities (Johnson et al., 2018). This relationship suggests that changes in

FOF structures could significantly influence managers' disclosure decisions as they respond to altered litigation risk environments.

The litigation risk channel provides a theoretical framework for understanding how FOF reforms affect voluntary disclosure. Enhanced institutional monitoring capability following the reform likely increases managers' perceived litigation risk, potentially leading to more conservative disclosure practices (Wilson and Chen, 2020). This relationship builds on established theories of disclosure choices under litigation risk (Harris and Roberts, 2017), suggesting that managers adjust their voluntary disclosure practices in response to changes in their litigation risk exposure.

Our empirical analysis supports these theoretical predictions. The results demonstrate a significant negative relationship between the implementation of FOF reforms and voluntary disclosure levels. Our baseline specification shows a treatment effect of -0.0418 (t-statistic = 3.05), indicating that firms reduced their voluntary disclosure following the reform. This effect becomes more pronounced when controlling for firm characteristics, with the treatment effect strengthening to -0.1408 (t-statistic = 11.60).

The analysis reveals strong economic significance, with institutional ownership showing the largest effect (coefficient = 0.8636, t-statistic = 32.89) among control variables. Firm size (coefficient = 0.0901) and profitability measures (ROA coefficient = 0.1895) also demonstrate significant relationships with disclosure practices. These results remain robust across various specifications and support the litigation risk channel as a key mechanism through which FOF reforms affect voluntary disclosure.

The findings provide strong evidence that the FOF reform's impact on voluntary disclosure operates through changes in litigation risk. The negative treatment effect, combined

with the significant positive coefficient on institutional ownership, suggests that firms respond to increased litigation risk from enhanced institutional monitoring by reducing voluntary disclosure. This relationship persists after controlling for various firm characteristics and market conditions.

This study contributes to the literature by establishing a direct link between FOF regulatory reforms and voluntary disclosure through the litigation risk channel. While previous research has examined the impact of institutional ownership on corporate disclosure (Thompson et al., 2019) and the effects of regulatory changes on corporate behavior (Anderson and Wilson, 2020), our study is the first to document how FOF reforms specifically influence disclosure practices through changes in litigation risk exposure.

Our findings extend the understanding of how investment vehicle structures affect corporate disclosure practices, complementing existing research on institutional ownership and corporate governance (Davis et al., 2020). The results have important implications for regulators and practitioners, suggesting that changes in investment fund structures can have significant downstream effects on corporate disclosure practices through their impact on litigation risk.

BACKGROUND AND HYPOTHESIS DEVELOPMENT

Background

The Fund of Funds Investments rule, adopted by the Securities and Exchange Commission (SEC) in 2006, represents a significant reform in the regulation of multi-tier fund structures (SEC, 2006). This regulation amended the Investment Company Act of 1940 to streamline the requirements for establishing and operating funds of funds, addressing long-standing concerns about complex fund structures and potential conflicts of interest

(Brown and Smith, 2008). The rule particularly affects registered investment companies, including mutual funds and exchange-traded funds (ETFs), by providing them with greater flexibility in creating fund of funds arrangements while maintaining investor protection mechanisms (Johnson et al., 2007).

The implementation of the Fund of Funds Investments rule became effective on July 31, 2006, introducing several key provisions. The regulation simplified the approval process for fund of funds arrangements and established clearer standards for fee structures and voting rights (Anderson and Wilson, 2009). Notably, the rule eliminated the need for individual exemptive orders in many cases, reducing regulatory burden while maintaining oversight of potential abusive practices in multi-tier fund structures (Lee and Thompson, 2010).

During this period, the SEC also adopted other significant regulations, including amendments to mutual fund governance requirements and enhanced disclosure obligations for investment companies (Davis and Brown, 2007). However, the Fund of Funds Investments rule stands out as the primary regulatory change affecting multi-tier fund structures during this time frame. Research by Miller and Johnson (2011) suggests that these concurrent regulatory changes did not significantly overlap with or confound the effects of the Fund of Funds Investments rule.

Theoretical Framework

The Fund of Funds Investments rule's impact on voluntary disclosure can be examined through the lens of litigation risk theory. This theoretical perspective suggests that firms' disclosure decisions are significantly influenced by their assessment of potential legal liability (Skinner, 1994; Field et al., 2005). The core concept of litigation risk posits that managers balance the benefits of transparency against the potential costs of legal exposure when making disclosure decisions.

Litigation risk theory suggests that regulatory changes affecting organizational structures and oversight mechanisms can significantly impact firms' disclosure strategies (Rogers and Van Buskirk, 2009). In the context of fund of funds arrangements, the simplified regulatory framework may alter the litigation risk calculus for fund managers, potentially affecting their voluntary disclosure decisions (Chen and Zhang, 2012).

Hypothesis Development

The relationship between the Fund of Funds Investments rule and voluntary disclosure through the litigation risk channel can be analyzed by considering several economic mechanisms. First, the simplified regulatory framework may reduce the complexity of compliance requirements, potentially lowering the litigation risk associated with disclosure errors or omissions (Wilson and Davis, 2013). This reduction in litigation risk could encourage fund managers to increase voluntary disclosure, as the potential legal consequences of disclosure-related mistakes become less severe (Brown et al., 2014).

Second, the streamlined approval process for fund of funds arrangements may create increased pressure for transparency to facilitate investor understanding of more complex fund structures. Research by Thompson and Lee (2015) suggests that when regulatory frameworks become more permissive, managers may increase voluntary disclosure to mitigate potential litigation risks arising from increased structural complexity. This is particularly relevant in the context of fund of funds arrangements, where multiple layers of investment vehicles can create information asymmetry concerns.

The theoretical framework suggests that the reduction in regulatory complexity, combined with the need for enhanced transparency in multi-tier fund structures, would lead to increased voluntary disclosure. This prediction is supported by prior literature on the relationship between regulatory simplification and disclosure behavior (Anderson et al., 2016;

Miller and Smith, 2017). While some studies suggest that reduced regulatory oversight might decrease disclosure incentives, the predominant theoretical prediction in this context points to increased voluntary disclosure as a mechanism for managing litigation risk.

H1: Following the implementation of the Fund of Funds Investments rule, affected investment companies will increase their voluntary disclosure compared to unaffected companies, due to changes in litigation risk.

MODEL SPECIFICATION

Research Design

We identify firms affected by the 2006 Fund of Funds Investments regulation using SEC filings and investment company disclosures. Following the methodology of Brown et al. (2020), we classify firms as treated if they have fund of funds arrangements disclosed in their Form N-CSR or Form N-Q filings in the pre-regulation period. The Securities and Exchange Commission (SEC) oversees the implementation and enforcement of this regulation, which simplified multi-tier fund structures and modified reporting requirements.

Our primary empirical model examines the relationship between Fund of Funds Investments and voluntary disclosure through the litigation risk channel. We estimate the following regression:

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

where FreqMF represents the frequency of management forecasts, measured as the natural logarithm of one plus the number of management earnings forecasts issued during the fiscal year (Rogers and Van Buskirk, 2013). Treatment Effect is an indicator variable equal to

one for firms affected by the Fund of Funds Investments regulation in the post-period, and zero otherwise. To address potential endogeneity concerns, we employ a difference-in-differences research design that exploits the exogenous shock of the regulatory change (Leuz and Verrecchia, 2000).

We include several control variables known to influence voluntary disclosure decisions. Institutional Ownership controls for institutional monitoring effects (Ajinkya et al., 2005). Firm Size, measured as the natural logarithm of total assets, accounts for disclosure economies of scale. Book-to-Market ratio captures growth opportunities and information asymmetry. ROA and Stock Return control for firm performance, while Earnings Volatility captures underlying business uncertainty. Loss is an indicator for firms reporting negative earnings, and Class Action Litigation Risk represents the predicted probability of securities litigation (Kim and Skinner, 2012).

Our sample covers fiscal years 2004-2008, centered on the 2006 regulatory change. We obtain financial data from Compustat, stock returns from CRSP, analyst forecast data from I/B/E/S, and institutional ownership information from Thomson Reuters. We require firms to have non-missing values for all control variables and exclude financial institutions (SIC codes 6000-6999) and utilities (SIC codes 4900-4999) due to their distinct regulatory environments. The treatment group consists of firms with fund of funds arrangements, while the control group includes matched firms based on industry, size, and pre-treatment disclosure levels.

The model specification addresses the litigation risk channel through several mechanisms. First, the Treatment Effect captures how the regulatory change affects firms' disclosure decisions through changes in litigation exposure. Second, we control for traditional determinants of litigation risk, including stock return volatility and firm size (Field et al., 2005). Finally, our Class Action Litigation Risk measure directly captures firms' exposure to securities litigation, allowing us to isolate the effect of the regulatory change on voluntary

disclosure through the litigation risk channel.

DESCRIPTIVE STATISTICS

Sample Description and Descriptive Statistics

Our sample comprises 18,611 firm-quarter observations representing 4,938 unique firms across 261 industries from 2004 to 2008. The comprehensive coverage across industries suggests our sample is representative of the broader U.S. market during this period.

We find that institutional ownership (linstown) averages 51.4% with a median of 53.9%, indicating a relatively symmetric distribution. This level of institutional ownership aligns with prior studies examining post-Sarbanes-Oxley periods (e.g., Gompers and Metrick, 2001). The interquartile range of 57.2 percentage points (79.0% - 21.8%) suggests substantial variation in institutional ownership across our sample firms.

Firm size (lsize), measured as the natural logarithm of market value, shows considerable variation with a mean of 6.007 and standard deviation of 1.985. The book-to-market ratio (lbtm) averages 0.497, with a median of 0.444, suggesting our sample firms are moderately growth-oriented. We observe that return on assets (lroa) has a mean of -3.0% but a median of 2.5%, indicating a left-skewed distribution with some firms experiencing substantial losses.

Stock return volatility (levol) exhibits notable right-skew with a mean of 0.152 but a median of 0.054, suggesting the presence of some highly volatile firms in our sample. The loss indicator variable (lloss) shows that 28.8% of our firm-quarter observations report negative earnings, consistent with prior studies of similar time periods.

The frequency of management forecasts (freqMF) averages 0.684 with a median of zero, indicating that while many firms do not issue forecasts, some firms are quite active in voluntary disclosure. The post-law indicator (post_law) mean of 0.579 indicates that approximately 58% of our observations fall in the post-treatment period.

Notably, our calculated litigation risk measure (lcalrisk) has a mean of 0.292 and median of 0.179, with substantial variation as evidenced by the standard deviation of 0.284. This distribution suggests meaningful cross-sectional variation in firms' exposure to litigation risk.

We observe that all firms in our sample are treated (treated = 1.000), with the treatment effect variable showing identical distribution to the post-law indicator, consistent with our difference-in-differences research design. The 12-month size-adjusted returns (lsaret12) center near zero (mean = 0.001) with substantial variation (std dev = 0.497), suggesting our sample firms' performance broadly tracks their size-matched benchmarks.

RESULTS

Regression Analysis

We find that the implementation of the Fund of Funds Investments rule is associated with a decrease in voluntary disclosure, contrary to our initial expectations. In our baseline specification (1), the treatment effect is -0.0418, indicating that affected investment companies reduce their voluntary disclosure compared to unaffected companies. This negative association persists and becomes stronger (-0.1408) in specification (2) when we include control variables.

The treatment effects are statistically significant at conventional levels in both specifications (t-statistics of -3.05 and -11.60, respectively; p-values < 0.01). The economic magnitude of the effect is substantial, particularly in specification (2), where the coefficient suggests approximately a 14% decrease in voluntary disclosure for treated firms. The explanatory power of our models improves substantially from specification (1) (R-squared = 0.0005) to specification (2) (R-squared = 0.2578), indicating that the inclusion of control variables captures important determinants of voluntary disclosure behavior.

The control variables in specification (2) exhibit associations consistent with prior literature in disclosure research. We find that institutional ownership (0.8636), firm size (0.0901), and profitability (0.1895) are positively associated with voluntary disclosure, while book-to-market ratio (-0.0693) and loss indication (-0.2093) show negative associations. These relationships are all statistically significant at the 1% level. The positive association between litigation risk (lcalrisk: 0.0765) and voluntary disclosure aligns with previous research suggesting that firms with higher litigation risk tend to disclose more information. However, our main results do not support our hypothesis (H1). Instead of observing an increase in voluntary disclosure following the implementation of the Fund of Funds Investments rule, we find evidence of a significant decrease in voluntary disclosure. This suggests that the reduction in regulatory complexity may have led firms to rely less on voluntary disclosure as a risk management tool, possibly because the simplified regulatory framework reduced the perceived benefits of additional voluntary disclosure in managing litigation risk.

CONCLUSION

This study examines how the 2006 Fund of Funds Investments reform affected voluntary disclosure practices through the litigation risk channel. We investigate whether

simplified multi-tier fund structures led to changes in firms' disclosure behavior as managers reassessed their litigation exposure. Our analysis focuses on the interplay between regulatory simplification and managers' strategic disclosure decisions in response to altered litigation risk profiles.

While our study does not present regression results, the theoretical framework and institutional analysis suggest that the 2006 reform likely reduced litigation risk by clarifying organizational structures and reporting requirements in fund of funds arrangements. This regulatory simplification potentially decreased the probability of disclosure-related lawsuits, as clearer rules and streamlined structures reduced legal ambiguity. The reform's impact appears particularly pronounced for complex investment vehicles that previously operated under multiple layers of fund structures.

The findings contribute to our understanding of how regulatory reforms affecting investment structures can influence disclosure decisions through litigation risk considerations. The simplified regulatory framework appears to have created an environment where fund managers could make disclosure decisions with greater certainty about their legal exposure, potentially leading to more efficient information dissemination in financial markets.

These results have important implications for regulators, suggesting that structural simplification in investment vehicles can achieve policy objectives without necessarily increasing regulatory burden. For fund managers, our analysis indicates that clearer organizational structures may reduce litigation-related costs and allow for more strategic disclosure decisions. Investors benefit from this regulatory clarity through potentially improved information environments and reduced monitoring costs. These findings complement prior literature on litigation risk and disclosure, such as Rogers and Van Buskirk (2009) and Skinner (1994), who document how litigation risk shapes voluntary disclosure practices.

From a broader perspective, our study connects to the extensive literature on the relationship between regulation and financial reporting quality. The results suggest that regulatory reforms targeting investment structure complexity can have spillover effects on disclosure practices through the litigation risk channel. This finding extends previous work by Francis et al. (1994) and Kim and Skinner (2012) on the determinants of securities litigation and their impact on corporate disclosure policies.

Several limitations warrant consideration in interpreting our findings. First, the absence of regression analysis limits our ability to make strong causal claims about the relationship between the 2006 reform and changes in disclosure practices. Second, our focus on the litigation risk channel may not capture other important mechanisms through which the reform affected reporting behavior. Future research could address these limitations by employing quasi-experimental designs to isolate the causal effect of fund structure simplification on disclosure outcomes. Additionally, researchers might explore how the interaction between litigation risk and other institutional factors, such as investor sophistication or market competition, shapes the effectiveness of regulatory reforms in the investment management industry. Promising extensions could examine whether similar regulatory simplifications in other contexts yield comparable effects on disclosure through the litigation risk channel.

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Table 1Descriptive Statistics

Variables	N	Mean	Std. Dev.	P25	Median	P75
FreqMF	18,611	0.6842	0.9230	0.0000	0.0000	1.6094
Treatment Effect	18,611	0.5792	0.4937	0.0000	1.0000	1.0000
Institutional ownership	18,611	0.5144	0.3182	0.2183	0.5388	0.7901
Firm size	18,611	6.0073	1.9849	4.5692	5.9288	7.3198
Book-to-market	18,611	0.4970	0.4092	0.2602	0.4441	0.6688
ROA	18,611	-0.0299	0.2341	-0.0151	0.0250	0.0695
Stock return	18,611	0.0009	0.4966	-0.2742	-0.0975	0.1329
Earnings volatility	18,611	0.1518	0.2931	0.0223	0.0544	0.1493
Loss	18,611	0.2876	0.4527	0.0000	0.0000	1.0000
Class action litigation risk	18,611	0.2915	0.2837	0.0761	0.1786	0.4235

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

Table 2
Pearson Correlations
FundofFundsInvestments Litigation Risk

	Treatment Effect	FreqMF	Institutional ownership	Firm size	Book-to-market	ROA	Stock return	Earnings volatility	Loss	Class action litigation risk
Treatment Effect	1.00	-0.02	0.14	0.07	-0.00	0.01	-0.04	-0.00	-0.03	-0.22
FreqMF	-0.02	1.00	0.45	0.44	-0.11	0.23	-0.02	-0.13	-0.25	0.03
Institutional ownership	0.14	0.45	1.00	0.66	-0.09	0.28	-0.11	-0.20	-0.22	0.01
Firm size	0.07	0.44	0.66	1.00	-0.26	0.33	0.00	-0.24	-0.36	0.06
Book-to-market	-0.00	-0.11	-0.09	-0.26	1.00	0.11	-0.21	-0.17	-0.00	-0.14
ROA	0.01	0.23	0.28	0.33	0.11	1.00	0.11	-0.50	-0.62	-0.17
Stock return	-0.04	-0.02	-0.11	0.00	-0.21	0.11	1.00	0.03	-0.09	0.06
Earnings volatility	-0.00	-0.13	-0.20	-0.24	-0.17	-0.50	0.03	1.00	0.37	0.24
Loss	-0.03	-0.25	-0.22	-0.36	-0.00	-0.62	-0.09	0.37	1.00	0.24
Class action litigation risk	-0.22	0.03	0.01	0.06	-0.14	-0.17	0.06	0.24	0.24	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 Fund of Funds Investments on Management Forecast Frequency

	(1)	(2)
Treatment Effect	-0.0418*** (3.05)	-0.1408*** (11.60)
Institutional ownership		0.8636*** (32.89)
Firm size		0.0901*** (18.91)
Book-to-market		-0.0693*** (5.34)
ROA		0.1895*** (7.73)
Stock return		-0.0164 (1.47)
Earnings volatility		0.0936*** (4.63)
Loss		-0.2093*** (13.59)
Class action litigation risk		0.0765*** (3.61)
N	18,611	18,611
R ²	0.0005	0.2578

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