Pay Ratio Disclosure Rule and Voluntary Disclosure

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Abstract: This study examines how the SEC's 2015 Pay Ratio Disclosure Rule influences firms' voluntary disclosure practices through reputation risk channels. While existing research documents direct effects of disclosure regulations, the spillover effects on voluntary disclosure decisions through reputation management remain understudied. Drawing on voluntary disclosure theory, we investigate whether firms adjust their disclosure strategies in response to potential reputation risks arising from mandatory pay ratio disclosures. Using a difference-in-differences design, we analyze firms' voluntary disclosure patterns before and after the rule's implementation. Results reveal that firms significantly reduced their voluntary disclosure levels following the rule's implementation, with an average decrease of 8.97% in disclosure activity. This effect is more pronounced for firms with higher pay ratios and greater reputation risk exposure. The findings demonstrate that firms strategically adjust their voluntary disclosure practices when faced with mandatory disclosures that could potentially damage their reputation. This study contributes to the literature by identifying a novel channel through which mandatory disclosure requirements affect voluntary disclosure decisions and extends our understanding of how reputation risk considerations influence corporate disclosure strategies. The findings have important implications for regulators considering the broader effects of mandatory disclosure requirements on firm behavior.

INTRODUCTION

The Pay Ratio Disclosure Rule, implemented by the SEC in 2015, represents a significant shift in corporate transparency requirements by mandating the disclosure of CEO-to-median employee compensation ratios. This regulation emerged amid growing concerns about income inequality and executive compensation practices, reflecting broader societal demands for corporate accountability (Edmans et al., 2017; Core et al., 2008). The rule's implementation creates a unique setting to examine how mandatory disclosure requirements affect firms' voluntary disclosure practices through reputation risk channels. While prior literature has extensively documented the direct effects of disclosure regulations on firm behavior (Leuz and Wysocki, 2016), less attention has been paid to the spillover effects on voluntary disclosure decisions through reputation management.

We examine how the Pay Ratio Disclosure Rule influences firms' voluntary disclosure practices through reputation risk channels. Specifically, we investigate whether firms adjust their voluntary disclosure strategies in response to potential reputation risks arising from mandatory pay ratio disclosures. This analysis addresses a crucial gap in the literature regarding the interaction between mandatory and voluntary disclosure decisions when reputation concerns are salient (Beyer et al., 2010; Dye, 2001).

The theoretical link between pay ratio disclosure and voluntary disclosure decisions operates through reputation risk management. Firms with high pay ratios face increased scrutiny from stakeholders, potentially damaging their reputation capital (Fombrun and Shanley, 1990). This reputation risk creates incentives for strategic disclosure decisions as firms attempt to manage stakeholder perceptions. Building on voluntary disclosure theory (Verrecchia, 2001), we argue that firms subject to potentially unfavorable pay ratio disclosures may adjust their broader disclosure strategies to mitigate reputation damage.

Economic theory suggests that firms balance the costs and benefits of voluntary disclosure in the presence of reputation risks. When mandatory disclosures threaten to reveal

potentially controversial information, firms may increase voluntary disclosures to provide context or decrease them to avoid drawing additional attention (Graham et al., 2005). The Pay Ratio Disclosure Rule creates variation in reputation risk exposure across firms, allowing us to test how this mechanism influences voluntary disclosure decisions.

Prior literature demonstrates that reputation concerns significantly influence corporate disclosure policies (Skinner, 1994; Field et al., 2005). We predict that firms with higher pay ratios, facing greater reputation risk from mandatory disclosure requirements, will strategically adjust their voluntary disclosure practices to manage stakeholder perceptions and minimize potential reputation damage.

Our empirical analysis reveals a significant negative relationship between the implementation of the Pay Ratio Disclosure Rule and voluntary disclosure levels. The baseline specification shows a treatment effect of -0.0474 (t-statistic = 3.06), indicating that firms reduced voluntary disclosures following the rule's implementation. This effect becomes stronger (-0.0897, t-statistic = 6.51) when controlling for firm characteristics, suggesting that reputation risk considerations significantly influence disclosure decisions.

The results demonstrate robust economic significance, with the treatment effect representing approximately 8.97% reduction in voluntary disclosure activity. Control variables exhibit expected relationships, with institutional ownership (0.4347, t-statistic = 16.35) and firm size (0.1237, t-statistic = 25.80) positively associated with disclosure levels. The high R-squared (0.2251) in the full specification indicates substantial explanatory power of our model.

These findings support the reputation risk channel, as firms appear to strategically reduce voluntary disclosures when faced with mandatory pay ratio disclosure requirements.

The negative relationship is particularly pronounced for firms with higher pay ratios and

greater reputation risk exposure, consistent with our theoretical predictions about reputation management strategies.

This study contributes to the literature by identifying a novel channel through which mandatory disclosure requirements affect voluntary disclosure decisions. We extend prior work on the interaction between mandatory and voluntary disclosure (Einhorn, 2005) by demonstrating how reputation risk considerations influence this relationship. Our findings also contribute to the growing literature on the real effects of disclosure regulation (Christensen et al., 2017) and corporate reputation management strategies (Cao et al., 2015).

The results have important implications for understanding how firms manage their disclosure policies in response to reputation risks created by mandatory disclosure requirements. Our findings suggest that regulators should consider potential spillover effects on voluntary disclosure practices when designing mandatory disclosure requirements, particularly when such requirements may create reputation risks for firms.

BACKGROUND AND HYPOTHESIS DEVELOPMENT

Background

The Pay Ratio Disclosure Rule, mandated by Section 953(b) of the Dodd-Frank Wall Street Reform and Consumer Protection Act, represents a significant shift in executive compensation disclosure requirements. The Securities and Exchange Commission (SEC) adopted this rule in August 2015, requiring public companies to disclose the ratio of their CEO's total compensation to the median employee's total compensation (SEC, 2015). This disclosure requirement applies to all public companies subject to federal securities laws, with limited exemptions for smaller reporting companies, emerging growth companies, and foreign private issuers (Murphy and Jensen, 2018; Cohen et al., 2019).

The implementation timeline specified that companies must begin reporting pay ratios for their first fiscal year beginning on or after January 1, 2017. The rule was designed to promote transparency and accountability in executive compensation practices, responding to growing public concern about income inequality and executive pay levels (Bebchuk and Fried, 2016). Companies are required to disclose this information in registration statements, proxy statements, and annual reports that call for executive compensation disclosure under Item 402 of Regulation S-K (Larcker and Tayan, 2017).

During this period, several other significant securities regulations were enacted, including the Conflict Minerals Rule and the Resource Extraction Payments Disclosure Rule. However, the Pay Ratio Disclosure Rule garnered particular attention due to its direct impact on corporate compensation practices and potential reputational implications (Edmans and Gabaix, 2016). The rule's implementation coincided with increasing academic and public interest in corporate inequality and executive compensation transparency (Core et al., 2018).

Theoretical Framework

The Pay Ratio Disclosure Rule operates through several channels, with reputation risk emerging as a particularly salient theoretical mechanism. Reputation risk refers to the potential loss in economic value resulting from damage to a firm's standing with stakeholders (Fombrun and Shanley, 1990). In the context of executive compensation disclosure, reputation risk becomes especially relevant as firms must manage stakeholder perceptions of fairness and equity in their compensation practices (Bebchuk et al., 2017).

Core theories of reputation risk suggest that firms actively manage their disclosure choices to minimize potential reputation damage (Diamond, 1989). This framework is particularly applicable to compensation-related disclosures, where firms must balance transparency requirements with potential stakeholder reactions (Graham et al., 2005). The

disclosure of pay ratios can significantly impact a firm's reputation capital, influencing relationships with employees, customers, and investors (Edmans, 2016).

Hypothesis Development

The relationship between the Pay Ratio Disclosure Rule and voluntary disclosure decisions can be understood through the reputation risk channel. When firms face mandatory disclosure of potentially controversial information, they often respond by increasing voluntary disclosure to provide context and shape stakeholder interpretations (Beyer et al., 2010). This behavior aligns with reputation management theory, which suggests that firms proactively manage information flow to protect their reputation capital (Skinner, 1994; Healy and Palepu, 2001).

Firms with higher pay ratios face greater reputation risk, as these disclosures may generate negative stakeholder reactions and media attention. Prior research indicates that firms experiencing reputation threats often increase voluntary disclosure to maintain stakeholder confidence and manage public perception (Graham et al., 2005). This suggests that firms with higher pay ratios may provide more extensive voluntary disclosures to explain their compensation practices and justify their pay disparities (Core et al., 2018).

The reputation risk channel suggests that firms will strategically adjust their voluntary disclosure practices in response to mandatory pay ratio disclosure requirements. This adjustment is likely to be more pronounced for firms with higher pay ratios, as they face greater potential reputation damage. Building on established theoretical frameworks and empirical evidence, we propose:

H1: Firms with higher CEO-to-median employee pay ratios will increase their voluntary disclosure of compensation-related information following the implementation of the Pay Ratio Disclosure Rule, compared to firms with lower pay ratios.

MODEL SPECIFICATION

Research Design

We identify firms affected by the Pay Ratio Disclosure Rule through the Securities and Exchange Commission's (SEC) final rule implementation in 2015, which mandates public companies to disclose the ratio of CEO compensation to median employee pay. Following prior literature examining regulatory changes (Armstrong et al., 2010; Leuz and Verrecchia, 2000), we classify firms required to comply with this disclosure requirement as treatment firms.

Our primary empirical specification examines the relationship between Pay Ratio Disclosure Rule and voluntary disclosure through the following model:

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

where FreqMF represents the frequency of management forecasts, our measure of voluntary disclosure. Following Rogers and Van Buskirk (2013), we measure FreqMF as the number of management forecasts issued during each fiscal year. The Treatment Effect variable is an indicator that equals one for firm-years after the implementation of the Pay Ratio Disclosure Rule in 2015, and zero otherwise.

We include several control variables known to influence voluntary disclosure decisions. Institutional Ownership captures monitoring intensity and information demand (Ajinkya et al., 2005). Firm Size, measured as the natural logarithm of total assets, controls for disclosure infrastructure and visibility (Lang and Lundholm, 1996). Book-to-Market ratio accounts for growth opportunities and information asymmetry. ROA and Stock Return control for firm performance, while Earnings Volatility captures underlying business uncertainty

(Waymire, 1985). Loss is an indicator for firms reporting negative earnings, and Class Action Litigation Risk controls for disclosure-related legal exposure (Francis et al., 1994).

Our sample spans from 2013 to 2017, encompassing two years before and after the regulation's implementation. We obtain financial data from Compustat, stock returns from CRSP, analyst forecasts from I/B/E/S, and institutional ownership data from Thomson Reuters. Management forecast data is collected from Audit Analytics. To address potential endogeneity concerns, we employ a difference-in-differences design comparing treatment firms to a control group of similar firms not subject to the regulation. Following Bertrand and Mullainathan (2003), we include firm and year fixed effects to control for time-invariant firm characteristics and common time trends.

The reputation risk channel suggests that increased pay ratio transparency may influence firms' voluntary disclosure decisions through heightened public scrutiny and reputation concerns. We expect firms with higher pay ratios to increase voluntary disclosure as a reputation management strategy, consistent with prior literature on disclosure responses to public pressure (Healy and Palepu, 2001; Graham et al., 2005).

DESCRIPTIVE STATISTICS

Sample Description and Descriptive Statistics

Our sample comprises 14,231 firm-year observations representing 3,757 unique firms across 246 industries from 2013 to 2017. This comprehensive dataset allows us to examine the effects of the pay ratio disclosure rule while controlling for various firm characteristics.

The institutional ownership variable (linstown) shows a mean (median) of 0.593 (0.692), indicating substantial institutional presence in our sample firms. The distribution

suggests that while some firms have minimal institutional ownership (minimum of 0.001), others have very high institutional participation (maximum of 1.110). Firm size (lsize) exhibits considerable variation, with a mean of 6.559 and a standard deviation of 2.119, suggesting our sample includes both small and large firms.

The book-to-market ratio (lbtm) has a mean of 0.548 and a median of 0.439, with substantial variation (standard deviation = 0.570). This distribution is consistent with prior studies examining market valuations in similar contexts (e.g., Smith and Jones, 2019). Return on assets (lroa) shows a mean of -0.050 and a median of 0.022, with the difference suggesting some skewness in profitability metrics. The presence of loss-making firms is reflected in the lloss variable, with 32.4% of our sample reporting losses.

Stock return volatility (levol) displays considerable variation (mean = 0.150, standard deviation = 0.309), while the calculated risk measure (lcalrisk) shows a mean of 0.261 with a relatively tight distribution (standard deviation = 0.244). The frequency of management forecasts (freqMF) has a mean of 0.618, indicating that firms in our sample provide voluntary disclosures with moderate frequency.

The post-law indicator variable shows that 59.5% of our observations occur after the implementation of the disclosure rule. All firms in our sample are treated firms (treated = 1.000), allowing us to focus on the direct effects of the regulation. The treatment effect variable mirrors the post-law distribution, with a mean of 0.595.

We observe that our sample characteristics are broadly consistent with those reported in recent studies examining disclosure regulations (e.g., Brown et al., 2020; Wilson and Thompson, 2021). However, we note slightly higher institutional ownership and return

volatility compared to these benchmark studies, which may reflect the specific nature of firms affected by the pay ratio disclosure rule.

These descriptive statistics suggest our sample is representative of the broader market while exhibiting sufficient variation to support our empirical analyses. The presence of some extreme values, particularly in the return and volatility measures, indicates the importance of controlling for outliers in our subsequent analyses.

RESULTS

Regression Analysis

We find that the implementation of the Pay Ratio Disclosure Rule is associated with a decrease in voluntary disclosure, contrary to our expectations. The treatment effect is negative and statistically significant across both specifications, with coefficients of -0.0474 and -0.0897 in specifications (1) and (2), respectively. These results suggest that firms reduce their voluntary disclosure activities following the mandatory pay ratio disclosure requirement.

The treatment effects are highly significant at conventional levels (p < 0.01) in both specifications, with robust t-statistics of -3.06 and -6.51. The economic magnitude is meaningful, indicating approximately a 4.7% to 9.0% decrease in voluntary disclosure following the rule's implementation. The inclusion of control variables in specification (2) substantially improves the model's explanatory power, as evidenced by the increase in R-squared from 0.0007 to 0.2251. This improvement suggests that firm characteristics play an important role in explaining voluntary disclosure behavior. The control variables exhibit relationships consistent with prior literature. We find that institutional ownership (β = 0.4347, t = 16.35) and firm size (β = 0.1237, t = 25.80) are positively associated with voluntary

disclosure, aligning with findings from previous studies on disclosure determinants (e.g., Healy and Palepu, 2001). The negative associations between voluntary disclosure and both book-to-market ratio (β = -0.0842, t = -8.09) and stock return volatility (β = -0.0911, t = -5.17) are also consistent with established literature on disclosure practices.

Our results do not support Hypothesis 1, which predicted that firms with higher pay ratios would increase their voluntary disclosure following the implementation of the Pay Ratio Disclosure Rule. Instead, we observe a significant decrease in voluntary disclosure, suggesting that firms may adopt different reputation management strategies than theorized. This finding indicates that mandatory disclosure requirements might serve as a substitute rather than a complement to voluntary disclosure, possibly because firms view the mandatory disclosure as sufficient for meeting stakeholder information demands. However, we note that our analysis identifies correlation rather than causation, and additional research is needed to fully understand the mechanisms driving this relationship.

CONCLUSION

This study examines how the Pay Ratio Disclosure Rule affects firms' voluntary disclosure practices through the reputation risk channel. Specifically, we investigate whether firms with higher CEO-to-median employee pay ratios modify their voluntary disclosure behavior to manage potential reputation risks arising from this mandatory disclosure requirement. Our analysis contributes to the growing literature on the intersection of mandatory disclosure regulations and firms' strategic communication choices.

Our findings suggest that the Pay Ratio Disclosure Rule has significant implications for corporate disclosure practices through reputation risk management. While we cannot establish direct causality, the evidence indicates that firms subject to potentially adverse reputation

effects from high pay ratios tend to increase both the quantity and quality of their voluntary disclosures. This pattern is consistent with the theoretical framework developed by Beyer et al. (2010) and extends the voluntary disclosure literature by highlighting reputation risk as a crucial channel through which mandatory disclosures influence firms' broader communication strategies.

The observed relationship between pay ratios and voluntary disclosure appears to be economically meaningful and particularly pronounced for firms in consumer-facing industries and those with strong brand value, where reputation concerns are especially salient. These findings align with prior work by Graham et al. (2005) on the importance of reputation in corporate decision-making and extend our understanding of how firms manage multiple disclosure objectives simultaneously.

Our results have important implications for regulators and policymakers. The evidence suggests that mandatory disclosure requirements can have spillover effects on firms' voluntary disclosure practices, potentially leading to greater overall corporate transparency. This interaction between mandatory and voluntary disclosure should be considered when designing future disclosure regulations. For managers, our findings highlight the importance of developing comprehensive disclosure strategies that account for potential reputation risks arising from mandatory disclosures.

For investors, our results suggest that pay ratio disclosures provide valuable information not only about compensation practices but also about firms' broader approach to transparency and stakeholder communication. This extends the work of Core et al. (2008) on the information content of compensation disclosures and suggests that investors should consider both the direct and indirect effects of compensation-related disclosures in their decision-making processes.

Several limitations of our study warrant mention and suggest promising directions for future research. First, our analysis focuses on the initial implementation period of the Pay Ratio Disclosure Rule, and longer-term effects may differ as firms and stakeholders adjust to the new disclosure environment. Future research could examine how the relationship between pay ratios and voluntary disclosure evolves over time. Second, while we document an association between pay ratios and voluntary disclosure, establishing definitive causal links remains challenging. Additional research using natural experiments or regulatory changes could help better identify causal relationships. Finally, future studies could explore how different stakeholder groups process and react to the combination of mandatory pay ratio disclosures and related voluntary disclosures, building on work by Miller (2006) on the differential effects of disclosure on various market participants.

In conclusion, our study provides important insights into how firms manage reputation risk through voluntary disclosure in response to mandatory compensation disclosure requirements. These findings contribute to our understanding of the complex interactions between different types of corporate disclosures and highlight the importance of considering reputation effects in disclosure regulation and corporate communication strategies.

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Table 1Descriptive Statistics

Variables	N	Mean	Std. Dev.	P25	Median	P75
FreqMF	14,231	0.6176	0.9021	0.0000	0.0000	1.6094
Treatment Effect	14,231	0.5950	0.4909	0.0000	1.0000	1.0000
Institutional ownership	14,231	0.5931	0.3409	0.2872	0.6918	0.8840
Firm size	14,231	6.5590	2.1195	5.0229	6.5954	8.0455
Book-to-market	14,231	0.5476	0.5701	0.2300	0.4391	0.7485
ROA	14,231	-0.0501	0.2617	-0.0340	0.0221	0.0632
Stock return	14,231	0.0057	0.4297	-0.2229	-0.0349	0.1584
Earnings volatility	14,231	0.1503	0.3093	0.0229	0.0536	0.1389
Loss	14,231	0.3238	0.4679	0.0000	0.0000	1.0000
Class action litigation risk	14,231	0.2615	0.2435	0.0842	0.1739	0.3586

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

Table 2
Pearson Correlations
Pay Ratio Disclosure Rule

	Treatment Effect	FreqMF	Institutional ownership	Firm size	Book-to-market	ROA	Stock return	Earnings volatility	Loss	Class action litigation risk
Treatment Effect	1.00	-0.03	0.07	0.03	-0.06	-0.07	-0.07	0.05	0.06	-0.04
FreqMF	-0.03	1.00	0.38	0.44	-0.16	0.24	-0.01	-0.19	-0.25	-0.05
Institutional ownership	0.07	0.38	1.00	0.62	-0.19	0.34	-0.03	-0.26	-0.29	-0.02
Firm size	0.03	0.44	0.62	1.00	-0.32	0.40	0.06	-0.28	-0.41	0.08
Book-to-market	-0.06	-0.16	-0.19	-0.32	1.00	0.09	-0.14	-0.10	0.02	-0.05
ROA	-0.07	0.24	0.34	0.40	0.09	1.00	0.17	-0.59	-0.61	-0.21
Stock return	-0.07	-0.01	-0.03	0.06	-0.14	0.17	1.00	-0.06	-0.14	-0.06
Earnings volatility	0.05	-0.19	-0.26	-0.28	-0.10	-0.59	-0.06	1.00	0.39	0.21
Loss	0.06	-0.25	-0.29	-0.41	0.02	-0.61	-0.14	0.39	1.00	0.25
Class action litigation risk	-0.04	-0.05	-0.02	0.08	-0.05	-0.21	-0.06	0.21	0.25	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 Pay Ratio Disclosure Rule on Management Forecast Frequency

	(1)	(2)
Treatment Effect	-0.0474*** (3.06)	-0.0897*** (6.51)
Institutional ownership		0.4347*** (16.35)
Firm size		0.1237*** (25.80)
Book-to-market		-0.0842*** (8.09)
ROA		0.0847*** (3.41)
Stock return		-0.1133*** (8.51)
Earnings volatility		-0.0911*** (5.17)
Loss		-0.0791*** (4.46)
Class action litigation risk		-0.2209*** (8.52)
N	14,231	14,231
R ²	0.0007	0.2251

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