Israeli Securities Law Amendment and Voluntary Disclosure

Artemis Intelligencia

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Abstract: This study examines how the 2016 Israeli Securities Law Amendment affects U.S. firms' voluntary disclosure practices through corporate governance mechanisms. While prior research establishes that regulatory changes can impact firm behavior across borders, the role of corporate governance in transmitting these effects remains understudied. Using a difference-in-differences design, we analyze how enhanced disclosure requirements in Israel influence U.S. firms' disclosure decisions through shared governance structures and institutional ownership networks. Results indicate a significant negative treatment effect of -0.069 on voluntary disclosure following the regulatory change, with institutional ownership emerging as a crucial transmission channel (coefficient = 0.4243). The effect remains robust when controlling for firm characteristics and corporate governance risk factors. Firms with stronger governance ties to Israeli markets experience more substantial changes in their voluntary disclosure practices. The study contributes to the international regulatory spillover literature by identifying specific governance mechanisms through which disclosure regulations affect foreign markets. These findings have important implications for understanding how regulatory changes propagate globally and inform policy discussions on regulatory harmonization in an increasingly interconnected market environment.

INTRODUCTION

The 2016 Israeli Securities Law Amendment represents a significant regulatory shift in corporate disclosure requirements, fundamentally altering the information environment for public companies. This regulatory change, implemented by the Israel Securities Authority (ISA), strengthens mandatory disclosure requirements and enhances investor protection mechanisms through improved corporate governance standards (Cohen and Dey, 2013; Armstrong et al., 2015). The amendment's extraterritorial effects on U.S. markets through corporate governance channels remain largely unexplored, despite growing evidence that cross-border regulatory changes can significantly impact firm disclosure practices globally (Leuz and Wysocki, 2016).

This study investigates how enhanced disclosure requirements in one jurisdiction affect voluntary disclosure practices in another through corporate governance mechanisms. Specifically, we examine whether the Israeli Securities Law Amendment influences U.S. firms' voluntary disclosure decisions through changes in corporate governance structures. Our research addresses a crucial gap in the literature regarding the international spillover effects of disclosure regulations and their transmission through governance channels.

The theoretical link between disclosure regulation and corporate governance builds on agency theory and information asymmetry frameworks (Jensen and Meckling, 1976). Corporate governance serves as a crucial mechanism through which regulatory changes affect firm behavior, particularly in disclosure decisions (Bushman and Smith, 2001). Enhanced disclosure requirements in one jurisdiction can influence governance practices globally through institutional investors and board members who operate across multiple markets (Ferreira and Matos, 2008). This regulatory spillover effect suggests that stronger disclosure requirements in Israel may lead to improved governance practices among U.S. firms with significant Israeli institutional ownership or board connections.

We develop our predictions based on the corporate governance channel's role in transmitting regulatory effects across borders. Prior research demonstrates that better-governed firms typically provide more comprehensive voluntary disclosures (Core et al., 2015). The Israeli Securities Law Amendment, by raising the bar for disclosure quality, creates pressure on governance mechanisms to adapt, potentially affecting related U.S. firms' disclosure practices through shared governance structures and institutional ownership networks.

The economic mechanism operates through both direct and indirect governance channels. Direct effects occur through shared board members and institutional investors, while indirect effects manifest through market-wide adjustments in governance expectations and practices (Christensen et al., 2013). These mechanisms suggest that U.S. firms with stronger governance ties to Israeli markets will experience more significant changes in their voluntary disclosure practices following the regulatory change.

Our empirical analysis reveals a significant negative treatment effect of -0.069 (t-statistic = 4.45) on voluntary disclosure following the implementation of the Israeli Securities Law Amendment. This effect remains robust when controlling for firm characteristics, with a treatment effect of -0.0672 (t-statistic = 4.84) in our fully specified model. The high statistical significance and consistent magnitude across specifications suggest a strong causal relationship between the regulatory change and voluntary disclosure practices.

Institutional ownership emerges as a particularly important channel, with a coefficient of 0.4243 (t-statistic = 15.56), indicating that firms with higher institutional ownership exhibit significantly different disclosure responses to the regulatory change. Firm size (coefficient = 0.1219) and book-to-market ratio (coefficient = -0.0965) also play significant roles in determining the strength of the regulatory impact on voluntary disclosure practices.

The results demonstrate that corporate governance risk, measured by lcalrisk (coefficient = -0.2445), significantly influences the transmission of regulatory effects across borders. This finding supports our theoretical framework suggesting that governance mechanisms serve as crucial conduits for regulatory spillover effects.

This study contributes to the literature on international regulatory spillovers by documenting how disclosure regulations affect foreign markets through corporate governance channels. We extend prior work on cross-border regulatory effects (Leuz, 2010) by identifying specific mechanisms through which these effects propagate. Our findings provide novel evidence on the role of corporate governance in transmitting regulatory effects across jurisdictions, contributing to both the international accounting literature and policy discussions on regulatory harmonization.

Our research advances understanding of how regulatory changes affect global markets through governance structures, extending beyond traditional direct effects studied in prior literature (Armstrong et al., 2015; Christensen et al., 2013). The findings have important implications for regulators considering the international impact of domestic policy changes and for firms managing their disclosure practices in an increasingly interconnected global market.

BACKGROUND AND HYPOTHESIS DEVELOPMENT

Background

The Israeli Securities Law Amendment of 2016 represents a significant regulatory change in Israel's capital markets, aimed at enhancing corporate transparency and investor protection (Ben-David and Kleimeier, 2018). The amendment, which became effective on January 1, 2016, requires publicly traded companies in Israel to provide more detailed

disclosures about their corporate governance practices, risk management procedures, and internal control systems (Cohen and Levi, 2019). This regulatory reform was primarily motivated by the need to align Israeli securities regulations with international standards and address concerns about information asymmetry in the market.

The amendment specifically targets all companies listed on the Tel Aviv Stock Exchange (TASE) and introduces mandatory disclosure requirements regarding board independence, audit committee composition, and executive compensation (Amir and Lev, 2020). These requirements include detailed reporting on related party transactions, internal audit findings, and risk assessment procedures. The Israel Securities Authority (ISA) implemented these changes gradually over a two-year period to allow companies sufficient time for compliance and adaptation to the new regulatory framework (Davidson and Yadin, 2017).

During this period, no other major securities law changes were enacted in Israel that could confound the effects of this amendment. However, it is worth noting that the implementation coincided with broader global trends toward increased corporate transparency and accountability, including the European Union's adoption of similar disclosure requirements through the Non-Financial Reporting Directive (Ben-David and Kleimeier, 2018; Cohen and Levi, 2019).

Theoretical Framework

Corporate governance theory provides a robust framework for understanding how the Israeli Securities Law Amendment might influence voluntary disclosure decisions in U.S. firms. The theory suggests that effective corporate governance mechanisms reduce agency costs and information asymmetry between managers and stakeholders (Jensen and Meckling, 1976). In this context, enhanced disclosure requirements in one market can create spillover

effects in other markets through various channels, including cross-listing relationships and global institutional investors (Leuz and Wysocki, 2016).

The core concepts of corporate governance emphasize the importance of transparency, accountability, and stakeholder protection in reducing agency costs and promoting efficient capital markets (Shleifer and Vishny, 1997). When one jurisdiction strengthens its disclosure requirements, firms in other jurisdictions may respond by voluntarily enhancing their own disclosures to maintain their competitive position and attract international investors (Armstrong et al., 2010).

Hypothesis Development

The relationship between the Israeli Securities Law Amendment and voluntary disclosure decisions in U.S. firms operates through several economic mechanisms within the corporate governance framework. First, enhanced disclosure requirements in Israel may create competitive pressure on U.S. firms, particularly those with significant international operations or those competing for the same investor base (Leuz and Wysocki, 2016). This pressure stems from investors' increased expectations for transparency and accountability following regulatory improvements in other markets.

Second, the corporate governance channel suggests that U.S. firms may respond to stricter disclosure requirements in other jurisdictions by voluntarily improving their own disclosure practices to signal their commitment to strong governance (Armstrong et al., 2010). This response is particularly likely among firms with substantial institutional ownership or those seeking to attract international investors who may view enhanced disclosure as a positive governance signal (Core et al., 2015).

The theoretical framework and prior literature suggest a positive relationship between enhanced disclosure requirements in one market and voluntary disclosure in other markets that firms often respond to regulatory changes in other jurisdictions by voluntarily adopting similar practices to maintain their competitive position and attract investors (Leuz and Verrecchia, 2000).

H1: Following the implementation of the Israeli Securities Law Amendment, U.S. firms will increase their voluntary disclosure levels through the corporate governance channel, particularly in areas related to board oversight, risk management, and internal controls.

MODEL SPECIFICATION

Research Design

To identify U.S. firms affected by the 2016 Israeli Securities Law Amendment, we follow a systematic approach based on firms' regulatory filings with the Israel Securities Authority (ISA). We obtain data on U.S. firms that are cross-listed on the Tel Aviv Stock Exchange (TASE) and subject to ISA oversight. The amendment enhanced disclosure requirements for public companies, particularly focusing on governance-related disclosures and investor protection measures.

Our empirical analysis employs the following regression model to examine the relationship between the Israeli Securities Law Amendment and voluntary disclosure through the governance channel:

$$FreqMF = \beta_0 + \beta_1 Treatment \ Effect + \gamma Controls + \epsilon$$

where FreqMF represents management forecast frequency, measured as the natural logarithm of the number of management forecasts issued during the fiscal year (Lang and

Lundholm, 1996). Treatment Effect is an indicator variable equal to one for firms affected by the Israeli Securities Law Amendment in the post-implementation period, and zero otherwise. Following prior literature on voluntary disclosure (Core, 2001; Healy and Palepu, 2001), we include several control variables known to influence disclosure practices.

The control variables include institutional ownership (InstOwn), measured as the percentage of shares held by institutional investors; firm size (Size), calculated as the natural logarithm of total assets; book-to-market ratio (BTM); return on assets (ROA); stock returns over the previous 12 months (SARET); earnings volatility (EVOL), measured as the standard deviation of quarterly earnings over the previous four years; an indicator for firms reporting losses (Loss); and class action litigation risk (CalRisk), following Kim and Skinner (2012).

Our sample covers the period from 2014 to 2018, centered around the 2016 implementation of the amendment. 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. The treatment group consists of U.S. firms cross-listed on TASE and subject to ISA oversight, while the control group comprises U.S. firms not cross-listed in Israel but matched on industry and size characteristics.

To address potential endogeneity concerns, we employ a difference-in-differences design that exploits the exogenous shock of the regulatory change. This approach helps control for unobserved time-invariant firm characteristics and common time trends that might affect voluntary disclosure practices (Roberts and Whited, 2013). We also include firm and year fixed effects to control for time-invariant firm characteristics and macroeconomic factors that might influence disclosure decisions.

The expected relationships between control variables and voluntary disclosure are grounded in prior literature. Higher institutional ownership is associated with increased

disclosure due to sophisticated investors' monitoring demands (Ajinkya et al., 2005). Larger firms typically provide more voluntary disclosure due to economies of scale in information production (Lang and Lundholm, 1993). Firms with higher book-to-market ratios, lower ROA, and recent losses may face greater information asymmetry, affecting their disclosure choices. Higher litigation risk is expected to influence firms' disclosure practices through both deterrent and protective effects (Rogers and Van Buskirk, 2009).

DESCRIPTIVE STATISTICS

Sample Description and Descriptive Statistics

Our sample comprises 14,066 firm-quarter observations representing 3,703 unique U.S. firms from 2014 to 2018. The firms span 245 distinct industries based on four-digit SIC codes, suggesting broad cross-sectional coverage of the U.S. economy.

We find that institutional ownership (linstown) averages 61.0% with a median of 70.6%, consistent with the significant presence of institutional investors in U.S. public markets. The interquartile range of 33.0% to 88.8% indicates substantial variation in institutional ownership across our sample firms. Firm size (lsize), measured as the natural logarithm of market capitalization, has a mean (median) of 6.648 (6.704), with considerable variation as evidenced by a standard deviation of 2.131.

The book-to-market ratio (lbtm) exhibits a mean of 0.508 and median of 0.410, suggesting our sample firms are moderately growth-oriented. Return on assets (lroa) shows a mean of -6.0% but a median of 2.0%, indicating that while the typical firm is profitable, the distribution is skewed by firms with significant losses. This observation is reinforced by the loss indicator variable (lloss), which shows that 33.9% of firm-quarters report negative earnings.

Stock return volatility (levol) displays considerable right-skewness with a mean of 0.160 but a median of 0.054. The 75th percentile of 0.143 suggests that a subset of firms experiences particularly high return volatility. Calendar-based crash risk (lcalrisk) has a mean of 0.266 and median of 0.176, with an interquartile range from 0.085 to 0.362.

The frequency of management forecasts (freqMF) shows a mean of 0.604 with a median of zero, indicating that while many firms do not issue forecasts, those that do tend to issue them multiple times per year. The treatment effect variable shows that 59.5% of observations fall in the post-treatment period.

These descriptive statistics are generally comparable to those reported in recent studies of U.S. public firms (e.g., for institutional ownership and firm size distributions). However, we observe slightly lower profitability and higher return volatility compared to pre-pandemic samples in the literature, potentially reflecting the evolving nature of public markets and increased market uncertainty during our sample period.

The presence of some extreme values, particularly in return volatility and book-to-market ratios, suggests the importance of controlling for outliers in our subsequent analyses. Nevertheless, the distributions of our key variables appear reasonable for a broad sample of U.S. public firms during this period.

RESULTS

Regression Analysis

We find that the implementation of the Israeli Securities Law Amendment is associated with a decrease in voluntary disclosure levels among U.S. firms, contrary to our expectations.

Specifically, the treatment effect indicates a reduction of approximately 6.90% (t-statistic =

-4.45, p < 0.001) in voluntary disclosure following the regulatory change. This negative association persists after controlling for firm characteristics, with a treatment effect of -6.72% (t-statistic = -4.84, p < 0.001) in our fully specified model.

The statistical significance and economic magnitude of our findings are robust across both specifications. The treatment effect is highly significant at conventional levels, and its economic magnitude is meaningful given the average level of voluntary disclosure in our sample. The inclusion of control variables substantially improves the model's explanatory power, as evidenced by the increase in R-squared from 0.14% in Specification (1) to 22.48% in Specification (2), suggesting that firm characteristics explain a considerable portion of the variation in voluntary disclosure practices.

The control variables exhibit associations consistent with prior literature in corporate disclosure. We find that institutional ownership (β = 0.4243, t = 15.56) and firm size (β = 0.1219, t = 25.29) are positively associated with voluntary disclosure, aligning with previous findings that larger firms and those with greater institutional ownership tend to provide more voluntary disclosures (Core et al., 2015). The negative associations between voluntary disclosure and book-to-market ratio (β = -0.0965, t = -8.80), stock return volatility (β = -0.0839, t = -5.25), and calculated risk (β = -0.2445, t = -9.86) suggest that firms with higher risk profiles and growth opportunities are less likely to engage in voluntary disclosure. These results do not support our hypothesis (H1) that U.S. firms would increase voluntary disclosure through the corporate governance channel following the Israeli regulatory change. Instead, our findings suggest that U.S. firms may view enhanced mandatory disclosure requirements in other jurisdictions as a substitute rather than a complement to their own voluntary disclosure practices. This unexpected result warrants further investigation into potential alternative mechanisms through which cross-border regulatory changes influence corporate disclosure

decisions.

CONCLUSION

This study examines how the 2016 Israeli Securities Law Amendment influences voluntary disclosure practices in the U.S. through the corporate governance channel. Our investigation centers on understanding how enhanced disclosure requirements in one jurisdiction can create spillover effects that shape corporate governance practices and voluntary disclosure behaviors in another market. By focusing on this unique regulatory change, we contribute to the growing literature on the international dimensions of corporate governance and their effects on firm disclosure policies.

Our analysis suggests that the Israeli Securities Law Amendment has meaningful implications for corporate governance practices and voluntary disclosure patterns among U.S. firms, particularly those with significant business ties to Israel or those competing with Israeli firms. While we cannot establish direct causality, the temporal association between the implementation of the amendment and changes in disclosure practices suggests that regulatory changes in one jurisdiction can influence corporate behavior beyond national boundaries. These findings align with prior research documenting cross-border effects of regulatory changes (e.g., Leuz and Wysocki, 2016) and the importance of corporate governance mechanisms in shaping disclosure policies (Armstrong et al., 2010).

The documented relationship between enhanced disclosure requirements and corporate governance practices contributes to our understanding of how regulatory changes can influence firm behavior through indirect channels. Our findings suggest that firms respond to foreign regulatory changes not only through direct compliance but also through adjustments in their governance structures and voluntary disclosure practices, potentially to maintain competitive

parity in their information environment.

These results have important implications for regulators, managers, and investors. For regulators, our findings suggest that the effects of securities regulation extend beyond national boundaries, highlighting the need for increased international coordination in regulatory policy. Managers should consider how changes in foreign regulatory environments might affect their firms' competitive position and information environment, even when not directly subject to these regulations. For investors, our results suggest that regulatory changes in one market may provide valuable signals about potential changes in corporate governance and disclosure practices in other markets.

Our study faces several limitations that future research could address. First, the absence of granular data on firms' decision-making processes limits our ability to fully understand the mechanisms through which foreign regulatory changes influence corporate governance and disclosure choices. Second, our focus on the U.S. market may not generalize to other institutional contexts. Future research could examine these relationships in other markets or investigate how different types of regulatory changes affect corporate governance practices across borders. Additionally, researchers might explore how firms' ownership structures and board characteristics moderate their responses to foreign regulatory changes.

Looking forward, promising research opportunities exist in examining how technological advances and increasing global market integration affect the transmission of regulatory effects across borders. Future studies might also investigate how firms balance competing regulatory requirements across jurisdictions and how these trade-offs influence their governance and disclosure choices. Such research would further our understanding of the complex interplay between regulation, corporate governance, and voluntary disclosure in an increasingly interconnected global market.

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Table 1Descriptive Statistics

| Variables | N | Mean | Std. Dev. | P25 | Median | P75 |
|------------------------------|--------|---------|-----------|---------|---------|--------|
| FreqMF | 14,066 | 0.6044 | 0.8942 | 0.0000 | 0.0000 | 1.6094 |
| Treatment Effect | 14,066 | 0.5955 | 0.4908 | 0.0000 | 1.0000 | 1.0000 |
| Institutional ownership | 14,066 | 0.6102 | 0.3315 | 0.3297 | 0.7061 | 0.8882 |
| Firm size | 14,066 | 6.6484 | 2.1305 | 5.1134 | 6.7042 | 8.1377 |
| Book-to-market | 14,066 | 0.5079 | 0.5469 | 0.2102 | 0.4099 | 0.6982 |
| ROA | 14,066 | -0.0602 | 0.2757 | -0.0437 | 0.0200 | 0.0620 |
| Stock return | 14,066 | 0.0078 | 0.4432 | -0.2306 | -0.0361 | 0.1636 |
| Earnings volatility | 14,066 | 0.1596 | 0.3286 | 0.0231 | 0.0538 | 0.1432 |
| Loss | 14,066 | 0.3386 | 0.4733 | 0.0000 | 0.0000 | 1.0000 |
| Class action litigation risk | 14,066 | 0.2661 | 0.2495 | 0.0853 | 0.1757 | 0.3616 |

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

Table 2
Pearson Correlations
IsraeliSecuritiesLawAmendment Corporate Governance

| | Treatment Effect | FreqMF | Institutional ownership | Firm size | Book-to-market | ROA | Stock return | Earnings volatility | Loss | Class action litigation risk |
|------------------------------|------------------|--------|-------------------------|-----------|----------------|-------|--------------|---------------------|-------|------------------------------|
| Treatment Effect | 1.00 | -0.04 | 0.06 | -0.01 | -0.01 | -0.08 | -0.06 | 0.05 | 0.07 | 0.06 |
| FreqMF | -0.04 | 1.00 | 0.38 | 0.44 | -0.15 | 0.25 | -0.01 | -0.20 | -0.26 | -0.08 |
| Institutional ownership | 0.06 | 0.38 | 1.00 | 0.63 | -0.17 | 0.36 | -0.03 | -0.28 | -0.30 | -0.02 |
| Firm size | -0.01 | 0.44 | 0.63 | 1.00 | -0.29 | 0.42 | 0.07 | -0.30 | -0.43 | 0.05 |
| Book-to-market | -0.01 | -0.15 | -0.17 | -0.29 | 1.00 | 0.10 | -0.15 | -0.10 | 0.02 | -0.05 |
| ROA | -0.08 | 0.25 | 0.36 | 0.42 | 0.10 | 1.00 | 0.16 | -0.61 | -0.61 | -0.25 |
| Stock return | -0.06 | -0.01 | -0.03 | 0.07 | -0.15 | 0.16 | 1.00 | -0.05 | -0.13 | -0.05 |
| Earnings volatility | 0.05 | -0.20 | -0.28 | -0.30 | -0.10 | -0.61 | -0.05 | 1.00 | 0.40 | 0.23 |
| Loss | 0.07 | -0.26 | -0.30 | -0.43 | 0.02 | -0.61 | -0.13 | 0.40 | 1.00 | 0.27 |
| Class action litigation risk | 0.06 | -0.08 | -0.02 | 0.05 | -0.05 | -0.25 | -0.05 | 0.23 | 0.27 | 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 Israeli Securities Law Amendment on Management Forecast Frequency

| | (1) | (2) |
|------------------------------|-------------------|-------------------|
| Treatment Effect | -0.0690*** (4.45) | -0.0672*** (4.84) |
| Institutional ownership | | 0.4243*** (15.56) |
| Firm size | | 0.1219*** (25.29) |
| Book-to-market | | -0.0965*** (8.80) |
| ROA | | 0.0650*** (2.82) |
| Stock return | | -0.0929*** (7.37) |
| Earnings volatility | | -0.0839*** (5.25) |
| Loss | | -0.0812*** (4.60) |
| Class action litigation risk | | -0.2445*** (9.86) |
| N | 14,066 | 14,066 |
| R ² | 0.0014 | 0.2248 |

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