DOES MANAGERIAL ENTRENCHMENT AFFECT AUDIT REPORT LAG?

Ebenezer K. Lamptey^{*}, Alex Tang^{**}, Isaac Bonaparte^{**}

* Corresponding author, Jack H. Brown College of Business and Public Administration, California State University, San Bernardino, California, the USA

Contact details: California State University, 5500 University Parkway, San Bernardino, CA 92407, the USA ** Earl G. Graves School of Business and Management, Morgan State University, Baltimore, Maryland, the USA *** College of Business and Economics, Towson University, Towson, Maryland, the USA



Abstract

How to cite this paper: Lamptey, E. K., Tang, A., & Bonaparte, I. (2021). Does managerial entrenchment affect audit report lag? *Corporate Ownership & Control, 18*(3), 46-56.

https://doi.org/10.22495/cocv18i3art4

Copyright © 2021 The Authors

This work is licensed under a Creative Commons Attribution 4.0 International License (CC BY 4.0). https://creativecommons.org/licenses/by/ 4.0/

ISSN Online: 1810-3057 **ISSN Print:** 1727-9232

Received: 07.01.2021 Accepted: 01.03.2021

JEL Classification: M42, G32, B26 **DOI:** 10.22495/cocv18i3art4

We examine the association between audit report lag (ARL) and managerial entrenchment using data spanning 2008-2016. We use regression analysis and data obtained from publicly available sources to construct our sample consisting of 5,155 firm-year observations and 807 unique firms to investigate whether the behavior of entrenched managers influences the time it takes auditors to complete an audit. The length of the annual audit is the most critical determinant of the timeliness and relevance of the financial reports. Our proxy for managerial entrenchment is the entrenchment index (EINDEX) as constructed by Bebchuk, Cohen, and Farrell (2009). We find a negative relation between audit report lag and the entrenchment index. We stratify the entrenchment provisions in line with existing literature and find a negative association between the provisions that restrict shareholder rights and the provisions that discourage hostile takeovers. Overall, our findings suggest that management entrenchment curtails managerial opportunism and reduces the auditors' efforts, and the time auditors spend to complete the audit.

Keywords: Entrenchment Provisions, Entrenchment Index, Managerial Entrenchment, Managerial Opportunism, Audit Report Lag

Authors' individual contribution: Conceptualization – E.K.L., A.T., and I.B.; Investigation – E.K.L.; Methodology – E.K.L. and A.T.; Writing – Original Draft – E.K.L.; Writing – Review & Editing – A.T. and I.B.; Formal Analysis – E.K.L.; Supervision – A.T.

Declaration of conflicting interests: The Authors declare that there is no conflict of interest.

1. INTRODUCTION

Regulators, investors, and standard setters are among those that have expressed concern about the timeliness of financial information. Financial information loses its relevance to users when delayed (Atiase, Bamber, & Tse, 1989; Owusu-Ansah & Leventis, 2006). Leventis, Weetman, and Caramanis (2005) argue a positive relation between the timeliness of financial reporting and investor confidence in decision-making. Bryan and Mason (2020) find a negative relation between the volatility of earnings and audit report lag (ARL). The stock market appears to respond negatively to late Securities and Exchange Commission (SEC) filings (Bartov & Konchitchki, 2017; Li & Ramesh, 2009). Knechel and Sharma (2012) suggest that the most critical determinant of timely financial reporting is the length of the annual audit measured by the audit report lag.

Audit report lag is the period between a firm's fiscal year-end date and the date the audit report is signed (Bryan & Mason, 2020; Blankley, Hurtt, & MacGregor, 2014; Ashton, Willingham, & Elliott, 1987). Abbott, Parker, and Peters (2012) find that firms with material weaknesses in internal controls and firms that are more likely to restate their financial statements have longer audit report lags. The literature reflects a positive relation between corporate governance mechanisms and managerial behavior. However, researchers are divided over the impact of management entrenchment on managerial behavior and firm performance. Whereas some studies find that management entrenchment



encourages managerial opportunism (including but not limited to the manipulation of earnings) and adversely impacts firm performance, others find that management entrenchment curtails managerial opportunism, enhances firm performance, and improves shareholder value. Thus, the relation between the behavior of entrenched managers and the time it takes an auditor to ensure that the financial statements are reasonably free of material misstatements is an important empirical question that this study investigates.

Therefore, we examine the association between management entrenchment and audit report lag. We contend that if management entrenchment curtails managerial indiscipline and opportunism due to enhanced job security, management entrenchment should reduce audit report lag. However, if management entrenchment engenders managerial indiscipline and empowers managers to take self-serving actions, we should find that management entrenchment culminates in longer audit report lag. Our proxy for management entrenchment is the entrenchment index (EINDEX), as constructed by Bebchuk, Cohen, and Ferrell (2009). They used six entrenchment provisions to construct the entrenchment index. The provisions are: 1) staggered board, 2) limits to amending the bylaws, 3) limits to amending the charter, 4) supermajority requirements for mergers, 5) poison pills, and 6) golden parachutes. The first four provisions limit the shareholders' ability to enforce their will on management, and the last two provisions (poison pills and golden parachute) discourage hostile takeover bids. We find a significant negative relation between management entrenchment and audit report lag. Based on the classification of the six provisions noted above, we construct two indices to examine their impact on audit report lag. We find a negative and significant association between the provisions that limit shareholder rights and audit report lag.

Al Dah, Michael, and Dixon (2017) classified the six entrenchment provisions into those that provide monetary benefits in the event of a change in corporate control comprising golden parachutes, poison pills, and staggered boards, and those that do not, comprising the supermajority requirement to amend the corporate bylaws, the supermajority requirement to amend the charter. and the supermajority requirement for mergers. We find a negative relation between the provisions that provide monetary benefits to managers in the event of a change in corporate control and audit report lag. We also find a negative relation between the provisions that provide non-monetary benefits to managers and audit report lag.

We contribute to the debate on the effect of management entrenchment on managerial behavior, firm performance, audit risks, and timeliness of financial information. We provide empirical evidence to support the relation between management entrenchment and audit report lag. Our study should be of interest to researchers, regulators, market participants, auditors, and policymakers who continue to explore ways to enhance investor confidence in the capital markets and shareholders' wealth.

We organize the remainder of the study as follows. Section 2 provides the literature review and develops our hypothesis. In Section 3, we discuss our methodology and research design. In Section 4, we provide empirical analyses. In Section 5, we discuss the results, and in Section 6, we conclude the study.

2. LITERATURE REVIEW AND HYPOTHESIS DEVELOPMENT

Auditors have a fiduciary duty to their stakeholders to provide reliable information for purposes of decision-making. Auditors thus design procedures to obtain and evaluate evidence on the firms' financial statements to assure stakeholders that the financial statements are reasonably free of material misstatements. Auditors face significant audit risks in the discharge of their duties, as they may arrive at inaccurate opinions. For instance, the auditor may render an opinion that the financial statements are not materially misstated when, in fact, they are. The auditor's assessment of the level of risk determines the volume of evidence the auditor obtains, the timing of the audit test, and the nature of the evidence. Audit risk is a function of the inherent risk, the control risk, and the detection risk. Where the auditor identifies deficient internal controls, the auditor will conclude that there is a high risk that material misstatements will not be detected, and the auditor will increase the substantive tests of the transactions and accounts to mitigate the risk. The increased substantive tests often prolong the completion of the audit and thus increase the audit report lag.

Abernathy, Barnes, Stefaniak, and Weisbarth (2017) find that audit report lag determines the timeliness of financial information. Abernathy, Beyer, Masli, and Stefaniak (2015) find that audit committee members with accounting expertise enhance the timeliness of the financial reports. Based on a survey of 134 chief audit executives of Fortune 1000 firms, Abbott et al. (2012) find that highly leveraged firms, as well as firms that have material weaknesses in internal control and are prone to restate their financial statements, are more likely to have longer audit delays. Knechel and Payne (2001) find that audit report lag is likely to increase when the audit client has unsettled tax issues. Using a sample of 171 publicly listed firms on the Athens Stock Exchange as of December 31, 2000, Leventis et al. (2005) find that ARL is related to audit fees, the presence of extraordinary items, and the type of auditor. Using a sample of 465 firms from the Toronto Stock Exchange, Ashton, Graul, and Newton (1989) examine the factors that influence ARL. They find that the type of auditor, the firm's financial performance, and the existence of extraordinary items influence ARL. Sultana, Singh, and Van der Zahn (2015) examine the impact of corporate governance mechanisms on the timeliness of financial reporting. They find that the audit committee members' financial expertise and the independence of the audit committees culminate in the shortening of the ARL.

Bryan and Mason (2020) find a negative relation between the volatility of earnings and audit report lag. They document that auditors exert more effort when the earnings are less volatile. Bedard and Johnstone (2004) explore the relation between firms' earnings manipulations and auditors' risk assessment, pre-planning, and decisions. They use

VIRTUS

data from 1,000 public accounting clients for one audit firm and find that auditors increase their effort and charge higher rates when they assess that their risk is high. Bedard and Johnstone (2004) note that auditors can increase their effort by increasing their planned hours. Using a sample of 119 audits for firms in the Netherlands, Schelleman and Knechel (2010) examine the relation between short-term accruals and the pricing and production of audit services. They find that earnings management practices increase audit risk, which leads to substantial increases in the auditor's total effort and fees. In addition to audit risks, auditors also face business risks. The auditors' business risk is the risk of being sued because they arrive at the wrong opinions. Henninger (2001) uses a matched sample to examine the relation between the auditors' level of litigation and the level of discretionary accruals. He finds that the level of litigation is significantly and positively associated with the level of discretionary accruals.

Studies on the impact of corporate governance mechanisms managerial on behavior, firm and shareholder wealth performance, using the entrenchment index constructed by Bebchuk et al. (2009) as a proxy for corporate governance remains inconclusive. Whereas one stream of research document that management entrenchment managerial myopia and reduces engenders managerial actions that enhance firm performance wealth (Amoah, and shareholder Bonaparte, Lamptey, & Kelly, 2020; Di Meo, Lara, & Surroca, 2017; Bhojraj, Sengupta, & Zhang, 2017), another stream suggest that management entrenchment weakens board oversight of the managers and engenders managerial indiscipline culminating in poor firm performance and a significant reduction in shareholder wealth (Chakraborty, Rzakhanov, & Sheikh, 2014; Bebchuk et al., 2009; Faleye, 2007).

Amoah et al. (2020) examine the relation between management entrenchment and stock option backdating. They find a negative association between management entrenchment and stock option backdating. Amoah et al. (2020) document that management entrenchment curtails the propensity for managerial opportunism. Di Meo et al. (2017) study the effect of managerial entrenchment on both accrual and real earnings management. They find a negative association between managerial entrenchment and accrual management. Di Meo et al. (2017) also find a negative association between managerial entrenchment and real earnings management. However, Hwang and Lee (2012) document that management entrenchment has the propensity to engender earnings management activities aimed at reducing the possibility of detecting managerial expropriations of shareholder wealth.

Bebchuk et al. (2009) constructed the entrenchment index using the following six entrenchment provisions: staggered board, limits to amending the bylaws, limits to amending the charter, supermajority requirements for mergers, poison pills, and golden parachutes. The first four provisions curtail the voting rights of the shareholders and thus limit the ability of the shareholders to enforce their will on management, whereas the last two provisions: poison pills and golden parachute, discourage hostile takeover of the firm. Staggered boards are designed to ensure that all board members are not eligible for re-election or replacement annually, as the board members are placed into groups (often into three groups) with overlapping terms. Thus, acquiring firms have to wait for at least two consecutive years to assume control of the target firms, which may be frustrating to the potential acquirer.

A staggered board has the propensity to impact board oversight adversely and encourage the managers to engage in self-serving actions including (but not limited to) the opportunistic manipulation of earnings, as the board members depend on the managers for their re-election prospects. supermajority provisions The require that a supermajority of shareholders approve amendments of the corporate bylaws, the corporate charters, and corporate mergers. The supermajority provisions inhibit the ability of shareholders to alter previously accepted provisions. When a takeover is successful, a golden parachute provision essentially requires significant compensation to top executives without the approval of shareholders (Gompers, Ishii, & Metrick, 2003; Straska & Waller, 2014). This prohibitive compensation that the acquirer must pay to top management increases the cost of the takeover. Poison pills are exclusive rights that allow a common stockholder to purchase more shares of the target firm at a significant discount. Thus, poison pills make the target firm less attractive to the acquirer.

Given that, researchers are divided on the impact of management entrenchment on managerial behaviors, such as manipulating earnings to enhance reported income, we examine the relation between management entrenchment and audit report lag. We contend that if management entrenchment provides managerial job security, reduces managerial myopia, and mitigates managerial opportunism, we expect to find a negative relation between management entrenchment and audit report lag. However, if management entrenchment negatively influences managerial discipline and exacerbates managerial opportunism, we expect to find a positive relation between management entrenchment and audit report lag. Therefore, we state a non-directional null hypothesis as follows:

H1: Ceteris paribus, there is no association between managerial entrenchment and audit report lag.

3. METHODOLOGY AND RESEARCH DESIGN

3.1. Data and sample description

Our sample consists of firm-years with managerial entrenchment provisions spanning the period of 2008-2016. We use the entrenchment provisions to construct the entrenchment index. We obtain our data from Institutional Shareholder Services (ISS), Audit Analytics, and Compustat databases. The ISS provides researchers with corporate database company-related governance and risks and opportunities data, while the Compustat database provides comprehensive data on fundamentals and financial information of publicly listed companies. The audit analytics database is the leading data source for all audit-related information. Therefore, these data sources provide authentic data for



accounting research. We extract data starting from 2008 to capture the effects of the global financial crisis. We begin constructing our sample by identifying 14,843 firm-years that meet our selection criteria from the ISS governance database. We exclude firm-years with missing SOX 404, Compustat, audit fee, non-audit fee, and segment data. We also exclude firms with excess audit report

lags due to revenue recognition and protracted legal issues, leading to their annual financial reports' restatements. Our final sample consists of 5,155 firm-year observations and 807 unique firms. We winsorized all continuous variables of our data at the top and bottom 1% to reduce the impact of outliers. We present a summary of our sample construction in Table 1 below.

Table 1. Sample construction

Description	No. of firm-year observations
Institutional shareholder governance data for firms with available data	14,843
Less firms-years with missing Compustat data	2,446
Less firms-years with missing SOX 404 data	5,175
Less firms-years with missing audit fee data	10
Less firms-years with missing non-audit fee data	262
Less firms-years with missing segment data	749
Less firms-years with missing utilities and financial data	1027
Less firms-years with excess ARL due to revenue recognition and protracted legal issues	19
Final sample	5,155

3.2. Sample distribution

Table 2, *Panels A, B,* and *C* present the distribution of our sample. *Panel A* shows the Fama-French 48 industry portfolio distribution. A total of 41 industries are represented in our sample. *Panel B*

shows the year distribution of the firms in our sample. There is a consistent increase in the number of firm-years from 2008 to 2016. *Panel C* shows the S&P index distribution. Our sample consists of about 39% large-cap firms, 26% mid-cap firms, and 35% small-cap firms.

Table 2. Fama-French 48 industry portfolio distribution (Panel A)

Item	Description	Number of firm-years	Percentage of firms
Food	Food products	158	3.06%
Soda	Candy & soda	12	0.23%
Beer	Beer & liquor	37	0.72%
Toys	Recreation	43	0.83%
Fun	Entertainment	54	1.05%
Hshld	Consumer goods	175	3.39%
Clths	Apparel	120	2.33%
Hlth	Healthcare	107	2.08%
MedEq	Medical equipment	180	3.49%
Drugs	Pharmaceutical products	225	4.36%
Chems	Chemicals	209	4.05%
Rubbr	Rubber and plastic products	55	1.07%
Txtls	Textiles	22	0.43%
BldMt	Construction materials	112	2.17%
Cnstr	Construction	22	0.43%
Steel	Steelworks, etc.	151	2.93%
FabP	Fabricated products	3	0.06%
Mach	Machinery	307	5.96%
ElcEq	Electrical equipment	94	1.82%
Autos	Automobiles and trucks	102	1.98%
Aero	Aircraft	42	0.81%
Ships	Railroad equipment	15	0.29%
Guns	Defense	31	0.60%
Gold	Precious metals	8	0.16%
Mines	Non-metallic and industrial metal mining	42	0.81%
Coal	Coal	14	0.27%
Oil	Petroleum and natural gas	259	5.02%
Telcm	Communication	81	1.57%
PerSv	Personal services	39	0.76%
BusSv	Business services	616	11.95%
Comps	Computers	215	4.17%
Chips	Electronic equipment	377	7.31%
LabEq	Measuring and control equipment	182	3.53%
Paper	Business supplies	105	2.04%
Boxes	Shipping containers	51	0.99%
Trans	Transportation	161	3.12%
Whlsl	Wholesale	305	5.92%
Rtail	Retail	206	4.00%
Meals	Restaurants, hotels, motels	131	2.54%
RlEst	Real estate	14	0.27%
Other	Almost nothing	73	1.42%
Total		5155	100.00%

VIRTUS <u>1</u>9

Year	Firm-years observations	Percentage of firm-years
2008	478	9.27%
2009	488	9.47%
2010	528	10.24%
2011	556	10.79%
2012	579	11.23%
2013	607	11.77%
2014	609	11.81%
2015	637	12.36%
2016	673	13.06%
Total	5155	100.00%

Table 2. Sample year distribution (Panel B)

 Table 2. S&P index distribution (Panel C)

Year	S&P 400	S&P 500	S&P 600
2008	126 (9.50%)	185 (9.23%)	167 (9.16%)
2009	125 (9.42%)	193 (9.63%)	170 (9.33%)
2010	138 (10.40%)	206 (10.27%)	184 (10.09%)
2011	143 (10.78%)	218 (10.87%)	195 (10.70%)
2012	149 (11.23%)	230 (11.47%)	200 (10.97%)
2013	151 (11.38%)	241 (12.02%)	215 (11.79%)
2014	153 (11.53%)	237 (11.82%)	219 (12.01%)
2015	168 (12.66%)	245 (12.22%)	224 (12.29%)
2016	174 (13.11%)	250 (12.47%)	249 (13.66%)
Total	1327 (25.74%)	2005 (38.89%)	1823 (35.36)

3.3. Variable construction

Consistent with the literature, we measure ARL as the number of days between the end of a firm's fiscal year and the signature date of the audit report (Bryan & Mason, 2020; Blankley et al., 2014). We test our hypothesis using the ARL model modified from those used by Krishnan and Yang (2009) and Tanyi, Raghunandan, and Barua (2010), and our control variables are consistent with those used in the ARL literature.

Our main variable of interest is the entrenchment index (*EINDEX*). Consistent with Bebchuk et al. (2009), we construct the *EINDEX* as a categorical variable from the six entrenchment provisions. We assign a value of one to each of the entrenchment provisions adopted by a firm and zero otherwise. Thus, the *EINDEX* ranges from zero, where a firm does not adopt any entrenchment provision, to six, where a firm adopts all the six provisions.

3.4. Control variables

Our control variables are consistent with the audit report lag literature. These include Altman's *ZSCORE, TOBINQ, SIZE,* leverage (*LEV*), return on assets (*ROA*), auditor type (*BIG4*), material weakness in internal control (*MCW*), the natural logarithm of the non-audit fee (*LNAFEE*), the natural logarithm of audit fees (*LAFEE*), business segments (*BUSSEG*), litigation (*LIT*), going concern opinion (*GC*), firms with December fiscal year-end (*DEC*), accelerated filers (*ACF*), large-accelerated filers (*LACF*), and auditor change (*AUDCH*). Consistent with the literature, we expect a positive association between *ARL* and *ZSCORE*, *LEV*, *MCW*, *BUSSEG*, and *LIT* (Roychowdhury, 2006; Knechel & Payne, 2001; DeFond & Jiambalvo 1994; DeAngelo, DeAngelo, & Skinner, 1994; Simunic, 1980).

We expect a negative association between *ARL* and *SIZE, ROA, BIG4, ACF, LACF, GC* (Bryan & Mason, 2020; Dao & Pham, 2014; Knechel & Sharma, 2012; Krishnan & Yang, 2009; Collins, Gong, & Li, 2009; Anderson & Bizjack, 2003; Simunic & Stein, 1996; Ashton et al., 1987; Simunic, 1980). The ARL literature is inconclusive on the relationship between *ARL* and *TOBINQ, LNAFEE, LAFEE, DEC*, and *AUDCH*. Therefore, we do not provide directional expectations between *ARL* and those variables.

We test our hypothesis by estimating the following regression model.

We have defined all the variables in our model and specified how we operationalize them in the Appendix.

 $\begin{aligned} ARLP365 &= \alpha + \beta_{1}EINDEX + \beta_{2}ZSCORE + \beta_{3}TOBINQ + \beta_{4}SIZE + \beta_{5}LEV + \beta_{6}ROA + \beta_{7}BIG4 + \\ \beta_{8}MCW + \beta_{9}LNAFEE + \beta_{10}LAFEE + \beta_{11}BUSSEG + \beta_{12}LIT + \beta_{13}GC + \beta_{14}DEC + \beta_{15}ACF + \\ \beta_{16}LACF + \beta_{17}AUDCH + \beta_{I}INDUSTRY + \beta_{K}YEAR + \epsilon \end{aligned}$ (1)

4. EMPIRICAL ANALYSES

4.1. Descriptive statistics

Table 3 presents the descriptive statistics for our sample. The mean (median) ARL is 55 (56), which is consistent with those reported by Tanyi et al. (2010). The mean (median) *EINDEX* is 2 (2). Our sample shows the following means (medians). Altman's

Z-score (*ZSCORE*), *TOBINQ*, *SIZE*, *LEV*, *ROA* are 4.67 (3.70), 2.05 (1.70), 3.50 (3.45), 0.52 (0.52), 0.11 (0.10), respectively. Ninety-four percent of the firms in our sample are audited by *BIG4* auditing firms, whereas 29% are operating in industries that have high litigation risk. Only 2% report material control weaknesses, whereas 61% have *DEC 31* fiscal year-end. All firms in our sample are accelerated filers.



Variable	N	Mean	Std. dev.	Q1	Median	Q3	Minimum	Maximum
ARL	5155	54.87	8.37	51.00	56.00	59.00	20.00	99.00
ARLP365	5155	0.15	0.02	0.14	0.15	0.16	0.05	0.27
EINDEX	5155	1.93	1.47	1.00	2.00	2.00	0.00	6.00
ZSCORE	5155	4.67	5.11	2.47	3.70	5.33	-55.65	98.14
TOBINQ	5155	2.05	1.22	1.32	1.70	2.35	0.40	14.67
SIZE	5155	3.50	0.68	3.00	3.45	3.93	1.74	5.61
LEV	5155	0.52	0.22	0.39	0.52	0.64	0.03	3.63
ROA	5155	0.11	0.10	0.07	0.10	0.15	-2.76	0.78
BIG4	5155	0.94	0.23	1.00	1.00	1.00	0.00	1.00
MCW	5155	0.02	0.15	0.00	0.00	0.00	0.00	1.00
LNAFEE	5155	5.57	0.76	5.14	5.62	6.08	3.00	7.83
LAFEE	5155	6.42	0.43	6.11	6.40	6.70	4.85	7.82
BUSSEG	5155	0.19	0.39	0.00	0.00	0.00	0.00	1.00
LIT	5155	0.29	0.45	0.00	0.00	1.00	0.00	1.00
GC	5155	0.00	0.03	0.00	0.00	0.00	0.00	1.00
DEC	5155	0.61	0.49	0.00	1.00	1.00	0.00	1.00
ACF	5155	1.00	0.07	1.00	1.00	1.00	0.00	2.00
LACF	5155	0.90	0.30	1.00	1.00	1.00	0.00	2.00
AUDCH	5155	0.13	0.34	0.00	0.00	0.00	0.00	1.00

 Table 3. Descriptive statistics

Notes: Table 3 provides the descriptive statistics for the variables in our model. See the Appendix for variable descriptions.

Table 4 shows the Pearson's correlation matrix for all the variables in our model. Apart from ZSCORE and LIT, ARL is significantly correlated with all the variables in our model. The correlation matrix also shows that four pairs of variables indicate univariate correlations greater than 0.50. These include ZSCORE and TOBINO, SIZE and LAFEE, SIZE and LNAFEE, and LAFEE and LNAFEE. Because of these high correlations, we checked for the possibility of multicollinearity by estimating the variance inflation factor (VIF) for the variables in equation (1). The results show that SIZE and LAFEE have the highest VIF. Whereas SIZE has a VIF of 5.31, LAFEE has a VIF of 5.39. These high VIFs are comparatively lower than the critical value of 10 indicated in the literature, suggesting that there is no concern for multicollinearity.

5. RESULTS

5.1. Main results and discussions

Table 5 shows the results from estimating equation (1) used to test *H1*. The results show a negative and significant relation between *ARL* and *EINDEX*, with the model showing an *adjusted* R^2 of 31.30%. This suggests that auditors exert less effort and spend a shorter time completing the audit when the management of firms is entrenched. Consistent with our expectation, the results show that *ARL* is significantly and negatively associated with *TOBINQ*, *SIZE*, *BIG4*, *ACL*, and *LACF*. Additionally, our results show that *ARL* is significantly and positively associated with *MCW*, *LNAFEE*, *LAFEE*, *GC*, and *DEC*.

5.2. Additional analyses and robustness tests

Similar to Bebchuk et al. (2009), we bifurcate the entrenchment index into two categories. The first group consists of provisions that limit shareholder power. These provisions include staggered boards, the supermajority requirement for mergers and acquisitions, amendments of the corporate charter, and amendments of the corporate bylaws. The literature suggests that these four provisions limit the ability of shareholders to enforce their will over management. Therefore, we create an index (LSPOWER) which is a categorical variable using these four provisions and examine the association between this LSPOWER and ARL. We examine this relationship by separately estimating equation (1) by replacing EINDEX with *LSPOWER* while maintaining all the control variables. We find a negative and significant association between ARL and LSPOWER. We find that ARL is significantly and negatively associated with TOBINQ, SIZE, BIG4, ACF, and LACF. We also find positive and significant associations between ARL and MCW, LNAFEE, LAFEE, GC, and DEC.

The second group consists of provisions that discourage hostile takeover of firms. These provisions include golden parachutes and poison pills. We create an index (*HOST*), which is a categorical variable using these two provisions. We examine whether *HOST* has any association with *ARL*. We find a negative and significant association between *HOST* and *ARL*. Similar to our prior results, we find that whereas *ARL* is significantly and negatively associated with *TOBINQ, SIZE, BIG4, ACF,* and *LACF, ARL* is significantly and positively associated with *MCW, LNAFEE, LAFEE, GC,* and *DEC*. Table 6 presents the results of these tests.



	ARLP365	EINDEX	ZSCORE	TOBINQ	SIZE	LEV	ROA	BIG4	MCW	LNAFEE	LAFEE	BUSSE G	LIT	GC	DEC	ACF	LACF	AUDCH
ARLP365	1.00																	
EINDEX	0.06***	1.00																
ZSCORE	0.01	-0.01	1.00															
TOBINQ	-0.14***	-0.06***	0.56***	1.00														
SIZE	-0.42***	-0.20***	-0.27***	-0.14***	1.00													
LEV	-0.14***	-0.07***	-0.47***	-0.01	0.35***	1.00												
ROA	-0.10***	-0.05***	0.37***	0.47***	-0.01	-0.04***	1.00											
BIG4	-0.19***	0.05***	-0.14***	-0.05***	0.27***	0.17***	0.01	1.00										
MCW	0.16***	-0.01	-0.02	-0.02	-0.08***	0.00	-0.06***	-0.03**	1.00									
LNAFEE	-0.24***	-0.11***	-0.18***	-0.05***	0.62***	0.28***	0.03**	0.22***	-0.02*	1.00								
LAFEE	-0.34***	-0.16***	-0.29***	-0.16***	0.84***	0.38***	-0.04***	0.26***	-0.02*	0.68***	1.00							
BUSSEG	0.05***	-0.03**	0.01	0.01	-0.07***	0.02*	0.01	-0.03**	0.00	-0.09***	-0.17***	1.00						
LIT	-0.01	-0.07***	0.17***	0.26***	-0.04***	-0.12***	0.09***	-0.06***	0.02	-0.02	-0.09***	0.02	1.00					
GC	0.07***	0.00	-0.03*	-0.03**	-0.02	0.01	-0.05***	-0.02*	0.00	-0.01	-0.02*	0.00	-0.02	1.00				
DEC	0.06***	0.00	-0.10***	-0.03**	0.08***	0.09***	-0.10***	-0.03**	0.00	0.04***	0.10***	0.02	-0.22***	0.02	1.00			
ACF	-0.13***	0.01	0.01	0.05***	0.09***	0.05***	0.06***	0.18***	-0.01	0.07***	0.09***	-0.02	-0.02	0.00	-0.03**	1.00		
LACF	-0.29***	-0.06***	-0.04***	0.09***	0.36***	0.16***	0.11***	0.25***	-0.09***	0.25***	0.32***	-0.06***	-0.04***	-0.01	0.01	0.21***	1.00	
AUDCH	0.11***	0.09***	0.03**	-0.02	-0.21***	-0.08***	-0.06***	-0.07***	0.08***	-0.14***	-0.17***	0.02	-0.03**	-0.01	-0.01	-0.05***	-0.14***	1.00

 Table 4. Pearson's correlation coefficient matrix

Notes: Table 4 presents a Pearson's correlation matrix for our sample. We denote the statistical significance at 1%, 5%, and 10% as ***, **, and *, respectively. See the Appendix for variable descriptions.

Table 5. Regression results - EINDEX

	DV = ARLP365					
Variable	Predicted sign	Coefficient	t-value			
Intercept	?	0.20426***	27.14			
EINDEX	?	-0.00064***	-3.25			
ZSCORE	+	0.00003	0.4			
TOBINQ	?	-0.00381***	-11.56			
SIZE	-	-0.01925***	-21.46			
LEV	+	0.00057	0.35			
ROA	-	-0.00011	-0.03			
BIG4	-	-0.00590***	-4.63			
MCW	+	0.01808***	10.05			
LNAFEE	?	0.00199***	3.99			
LAFEE	?	0.00596***	4.22			
BUSSEG	+	0.00062	0.87			
LIT	+	0.00158	1.37			
GC	+	0.04269***	4.46			
DEC	?	0.00395***	6.3			
ACF	-	-0.01528***	-3.76			
LACF	-	-0.00651***	-6.3			
AUDCH	?	-0.00020	-0.24			
Industry fixed effects		YES				
Year fixed effects		YES				
Adjusted R ²		0.3130				
F-statistic (p-value)		37.13 (< 0.0001)				
N		5155				

Notes: Table 5 presents the regression results of the EINDEX. We denote the statistical significance at 1%, 5%, and 10% as ***, **, and *, respectively. See the Appendix for variable descriptions.

DV = ARL	P365	IV = LSPC	OWER	IV = H0	IV = HOST		
Variable	Predicted sign	Coefficient	t-value	Coefficient	t-value		
Intercept	?	0.20370***	27.08	0.20374***	27.12		
LSPOWER	?	-0.00075***	-2.75				
HOST	?			-0.00158***	-3.16		
ZSCORE	+	0.00003	0.41	0.00003	0.45		
TOBINQ	?	-0.00378***	-11.49	-0.00384***	-11.66		
SIZE	-	-0.01920***	-21.41	-0.01920***	-21.43		
LEV	+	0.00041	0.25	0.00089	0.54		
ROA	-	-0.00010	-0.03	-0.00003	-0.01		
BIG4	-	-0.00597***	-4.68	-0.00605***	-4.75		
MCW	+	0.01810***	10.06	0.01809***	10.05		
LNAFEE	?	0.00199***	3.99	0.00199***	3.99		
LAFEE	?	0.00599***	4.24	0.00598***	4.23		
BUSSEG	+	0.00063	0.88	0.00063	0.88		
LIT	+	0.00151	1.31	0.00176	1.52		
GC	+	0.04255***	4.44	0.04297***	4.49		
DEC	?	0.00392***	6.24	0.00403***	6.42		
ACF	-	-0.01519***	-3.74	-0.01550***	-3.82		
LACF	-	-0.00656***	-6.34	-0.00639***	-6.18		
AUDCH	?	-0.00020	-0.24	-0.00027	-0.32		
Industry fixed effects		YES		YES			
Year fixed effects		YES		YES			
Adjusted R ²		0.3126		0.3129			
F-statistic (p-value)		37.06(< 0.0001)		37.12(< 0.0001)			
N		5155		5155			

Notes: Table 6 presents the regression results of the LSPOWER. We denote the statistical significance at 1%, 5%, and 10% as ***, **, and *, respectively. See the Appendix for variable descriptions.

Consistent with Al Dah et al. (2017), we create two new indices. The first is for the provisions that provide monetary benefits in the event of a takeover (MB). *MB* is a categorical variable that comprises staggered boards, golden parachutes, and poison pills. Al Dah et al. (2017) included staggered boards because Bebchuk and Cohen (2005) argue that poison pills are effective when staggered boards are in place, although staggered boards do not provide direct monetary benefits. The second index comprises provisions that do not provide monetary benefits in the event of a takeover (NMB) but rather serve as the first line of defense against any takeover attempt. NMB is a categorical variable that comprises three entrenchment provisions, including supermajority requirements for mergers and acquisitions, amendment of corporate bylaws, and corporate charter amendments.

We test the association between audit report lag and each of these two indices separately. Consistent with the results from other tests conducted using the other indices – *EINDEX, LSPOWER*, and *HOST*, we find a negative and significant association between *ARL* and *MB*. We also find a negative and significant association between *ARL* and *NMB*. For both models, our results show significant and negative associations between *ARL* and *TOBINQ, SIZE, BIG4, ACF*, and *LACF*. The results also show significant and positive associations between *ARL* and *MCW LNAFEE, LAFEE, GC*, and *DEC*. We present the results of these tests in Table 7.



DV = ARI	LP365	IV =	MB	IV = N	IV = NMB		
Variable	Predicted sign	Coefficient	t-value	Coefficient	t-value		
Intercept	?	0.20429***	27.08	0.20306***	27.07		
MB	?	-0.00103***	-2.81				
NMB	?			-0.00093***	-2.86		
ZSCORE	+	0.00003	0.42	0.00003	0.44		
TOBINQ	?	-0.00382***	-11.58	-0.00379***	-11.51		
SIZE	-	-0.01931***	-21.44	-0.01908***	-21.34		
LEV	+	0.00069	0.42	0.00045	0.27		
ROA	-	-0.00025	-0.08	0.00008	0.03		
BIG4	-	-0.00592***	-4.64	-0.00608***	-4.78		
MCW	+	0.01810***	10.06	0.01810***	10.06		
LNAFEE	?	0.00197***	3.96	0.00200***	4.02		
LAFEE	?	0.00597***	4.22	0.00601***	4.25		
BUSSEG	+	0.00059	0.82	0.00067	0.94		
LIT	+	0.00174	1.51	0.00145	1.26		
GC	+	0.04281***	4.47	0.04256***	4.44		
DEC	?	0.00401***	6.38	0.00391***	6.23		
ACF	-	-0.01541***	-3.8	-0.01519***	-3.74		
LACF	-	-0.00643***	-6.22	-0.00657***	-6.35		
AUDCH	?	-0.00028	-0.34	-0.00017	-0.21		
Industry fixed effects		YES		YES			
Year fixed effects		YES		YES			
Adjusted R ²		0.3127		0.3127			
		37.07		37.08			
F-statistic (p-value)		(< 0.0001)		(< 0.0001)			
Ν		5155		5155			

 Table 7. Regression results - MB and NMB

Notes: Table 7 presents the regression results of the HOST. We denote the statistical significance at 1%, 5%, and 10% as ***, **, and *, respectively. See the Appendix for variable descriptions.

5.3. Discussion of results

In our main test, we find a negative and significant association between *ARL* and *EINDEX*. This result suggests that when managers are entrenched, they have no incentive to engage in self-serving behaviors detrimental to shareholders. Therefore, auditors are likely to assess the audit risk and their own business risk as low. Such low-risk assessments suggest auditors will most likely spend less time and effort to complete audits hence a shorter *ARL*.

We find a negative and significant relation between ARL and LSPOWER. Because the provisions in the LSPOWER index limit shareholder power, these provisions tend to entrench management. Like the entrenchment index, they discourage management from engaging managerial in misbehavior, which will cause auditors to spend less time and effort to complete audits. Also, we find a negative relation between ARL and HOST. The provisions in HOST make hostile takeover difficult, and management feels protected from such takeovers. Consistent with the EINDEX and LSPOWER, management will not engage in misbehavior. Consequently, auditors will likely spend less time and effort to complete audits, which leads to the negative relation between ARL and HOST.

We also find a negative relation between *ARL* and *NMB*. Since the provisions in *NMB* provide the first line of defense against takeover attempts, we contend that these provisions, like the entrenchment index, protect management against job and financial losses. As such, management will not engage in misbehavior, which will consequently cause auditors to spend less time and effort to complete their audits and result in a negative relation between the *ARL* and *NMB*. Finally, we find a negative and significant relation between *ARL* and *MB*. The provisions in the *MB* index provide monetary benefits to managers in the event of a takeover. The significant monetary benefit to

the managers in the event of a change in corporate ownership and control is a disincentive to potential acquirers and entrenches managers. Also, the inclusion of staggered board in the index further consolidates the position of management. Consistent with the main test results, auditors will likely spend less time and effort to complete the audit culminating in a negative relation between *ARL* and *MB*.

6. CONCLUSION

This study examines the association between management entrenchment and audit report lag. We use the entrenchment index as our proxy for management entrenchment. We find a negative association between the entrenchment index and audit report lag. Our results suggest that management entrenchment reduces auditor effort, and the time auditors spend on the audit. Our finding is consistent with those studies that document that management entrenchment strengthens managerial job security and reduces managerial myopia and self-serving managerial activities, such as manipulating earnings to enhance reported income. Auditors are more likely to evaluate the risk of material misstatements as low and thus may not perform any extended procedures. We further provide evidence that entrenchment shareholder provisions that curtail rights. discourage firm takeover, and provide both monetary and non-monetary benefits reduce audit report lag. Overall, our findings suggest that management entrenchment is beneficial to firms, as it reduces agency costs.

The study may be of interest to researchers, regulators, market participants, auditors, and policymakers, who intend to explore ways to minimize the effect of managerial misbehavior, attenuate managerial opportunism, and eventually provide market participants and shareholders with timely information to help them make investment decisions. Our study contributes to the existing literature on corporate governance and financial reporting timeliness. Our study also contributes to the literature on the relation between entrenchment provisions and firm values by providing empirical evidence to support the relation between the entrenchment provisions and the ARL. Bebchuk and Cohen (2005) find a negative relation between staggered boards and firm values, and this study extends that finding by showing a negative association between entrenchment indices and ARL.

Considering that managerial entrenchment can potentially lead to managerial misbehavior that is detrimental to shareholder interests, many shareholders push for the abolition of entrenchment provisions to safeguard shareholder interests. However, our results show that managerial entrenchment is beneficial to shareholders, as entrenched managers have no incentive to engage in managerial misbehavior that may result in longer audit report lag.

We contend that, like other empirical studies, this study has some limitations. Consistent with the definition of audit report lag in literature, we focus our research on audit work performed at the end of the year. Interim audit work potentially influences the amount of audit work performed at year-end. Therefore, future research may consider the effect that interim work may have on audit report lag. Additionally, auditor familiarity with both management and the company under audit may potentially influence the auditors' work, and the time it takes the auditors to complete the audit. Our work does not reflect the impact that such familiarity may have on the audit report lag. Besides, the audit report lag literature contains several control variables. Our research captures only some of those variables. Therefore, we contend that other variables not included in our model may influence the association between managerial entrenchment on audit report lag.

REFERENCES

- 1. Abbott, L. J., Parker, S., & Peters, G. F. (2012). Internal audit assistance and external audit timeliness. *Auditing: A Journal of Practice & Theory*, *31*(4), 3-20. https://doi.org/10.2308/ajpt-10296
- 2. Abernathy, J. L., Barnes, M., Stefaniak, C., & Weisbarth, A. (2017). An international perspective on audit report lag: A synthesis of the literature and opportunities for future research. *International Journal of Auditing*, *21*(1), 100-127. https://doi.org/10.1111/ijau.12083
- 3. Abernathy, J. L., Beyer, B., Masli, A., & Stefaniak, C. M. (2015). How the source of audit committee accounting expertise influences financial reporting timeliness. *Current Issues in Auditing*, *9*(1), P1-P9. https://doi.org/10.2308/ciia-51030
- 4. Al Dah, B., Michael, A., & Dixon, R. (2017). Antitakeover provisions and CEO monetary benefits: Revisiting the Eindex. *Research in International Business and Finance, 42,* 992-1004. https://doi.org/10.1016/j.ribaf.2017.07.033
- Amoah, N. Y., Bonaparte, I., Lamptey, E., & Kelly, M. (2020). Management entrenchment and stock option backdating. In C. R. Lehman (Ed.), *Resistance and accountability* (Advances in Public Interest Accounting, Vol. 22, pp. 1-22). https://doi.org/10.1108/S1041-706020200000022001
- 6. Anderson, R. C., & Bizjak, J. M. (2003). An empirical examination of the role of the CEO and the compensation committee in structuring executive pay. *Journal of Banking & Finance, 27*(7), 1323-1348. https://doi.org/10.1016/S0378-4266(02)00259-5
- 7. Ashton, R. H., Graul, P. R., & Newton, J. D. (1989). Audit delay and the timeliness of corporate reporting. *Contemporary Accounting Research*, *5*(2), 657-673. https://doi.org/10.1111/j.1911-3846.1989.tb00732.x
- 8. Ashton, R. H., Willingham, J. J., & Elliott, R. K. (1987). An empirical analysis of audit delay. *Journal of Accounting Research*, *25*(2), 275-292. https://doi.org/10.2307/2491018
- 9. Atiase, R. K., Bamber, L. S., & Tse, S. (1989). Timeliness of financial reporting, the firm size effect, and stock price reactions to annual earnings announcements. *Contemporary Accounting Research*, *5*(2), 526-552. https://doi.org/10.1111/j.1911-3846.1989.tb00722.x
- 10. Bartov, E., & Konchitchki, Y. (2017). SEC filings, regulatory deadlines, and capital market consequences. *Accounting Horizons*, *31*(4), 109-131. https://doi.org/10.2308/acch-51887
- 11. Bebchuk, L. A., & Cohen, A. (2005). The costs of entrenched boards. *Journal of Financial Economics*, 78(2), 409-433. https://doi.org/10.1016/j.jfineco.2004.12.006
- 12. Bebchuk, L. A., Cohen, A., & Ferrell, A. (2009). What matters in corporate governance? *The Review of Financial Studies*, *22*(2), 783-827. https://doi.org/10.1093/rfs/hhn099
- Bedard, J. C., & Johnstone, K. M. (2004). Earnings manipulation risk, corporate governance risk, and auditors' planning and pricing decisions. *The Accounting Review*, *79*(2), 277-304. https://doi.org/10.2308/accr.2004.79.2.277
 Bhojraj, S., Sengupta, P., & Zhang, S. (2017). Takeover defenses: Entrenchment and efficiency. *Journal of*
- 14. Bhojraj, S., Sengupta, P., & Zhang, S. (2017). Takeover defenses: Entrenchment and efficiency. *Journal of Accounting and Economics*, 63(1), 142-160. https://doi.org/10.1016/j.jacceco.2016.12.001
- 15. Blankley, A. I., Hurtt, D. N., & MacGregor, J. E. (2014). The relationship between audit report lags and future restatements. *Auditing: A Journal of Practice & Theory, 33*(2), 27-57. https://doi.org/10.2308/ajpt-50667
- 16. Bryan, D. B., & Mason, T. W. (2020). Earnings volatility and audit report lag. *Advances in Accounting*, *51*, 100496. https://doi.org/10.1016/j.adiac.2020.100496
- 17. Chakraborty, A., Rzakhanov, Z., & Sheikh, S. (2014). Antitakeover provisions, managerial entrenchment, and firm innovation. *Journal of Economics and Business*, *72*, 30-43. https://doi.org/10.1016/j.jeconbus.2013.10.001
- 18. Collins, D. W., Gong, G., & Li, H. (2009). Corporate governance and backdating of executive stock options. *Contemporary Accounting Research, 26*(2), 403-445. https://doi.org/10.1506/car.26.2.4
- 19. Dao, M., & Pham, T. (2014). Audit tenure, auditor specialization and audit report lag. *Managerial Auditing Journal*, *29*(6), 490-512. https://doi.org/10.1108/MAJ-07-2013-0906
- 20. DeAngelo, H., DeAngelo, L., & Skinner, D. J. (1994). Accounting choice in troubled companies. *Journal of Accounting and Economics*, *17*(1-2), 113-143. https://doi.org/10.1016/0165-4101(94)90007-8
- 21. DeFond, M. L., & Jiambalvo, J. (1994). Debt covenant violation and manipulation of accruals. *Journal of Accounting and Economics, 17*(1-2), 145-176. https://doi.org/10.1016/0165-4101(94)90008-6
- 22. Di Meo, F., Lara, J. M. G., & Surroca, J. A. (2017). Managerial entrenchment and earnings management. *Journal of Accounting and Public Policy*, *36*(5), 399-414. https://doi.org/10.1016/j.jaccpubpol.2017.07.003

VIRTUS

- 23. Faleye, O. (2007). Classified boards, firm value, and managerial entrenchment. Journal of Financial Economics, 83(2), 501-529. https://doi.org/10.1016/j.jfineco.2006.01.005
- Gompers, P., Ishii, J., & Metrick, A. (2003). Corporate governance and equity prices. The Quarterly Journal of 24. Economics, 118(1), 107-156. https://doi.org/10.1162/00335530360535162
- 25. Henninger, W. G. (2001). The association between auditor litigation and abnormal accruals. The Accounting Review, 76(1), 111-126. https://doi.org/10.2308/accr.2001.76.1.111
- 26. Hwang, L-S., & Lee, W.-J. (2012). Do takeover defenses impair equity investors' perception of "higher quality" earnings? Journal of Accounting, Auditing & Finance, 27(3), 325-358. https://doi.org/10.1177/0148558X11409155 Knechel, W. R., & Payne, J. L. (2001). Additional evidence on audit report lag. Auditing: A Journal of Practice & 27.
- Theory, 20(1), 137-146. https://doi.org/10.2308/aud.2001.20.1.137 28. Knechel, W. R., & Sharma, D. S. (2012). Auditor-provided nonaudit services and audit effectiveness and
- efficiency: Evidence from pre- and post-SOX audit report lags. Auditing: A Journal of Practice & Theory, 31(4), 85-114. https://doi.org/10.2308/ajpt-10298
- Krishnan, J., & Yang, J. S. (2009). Recent trends in audit report and earnings announcement lags. Accounting 29. Horizons, 23(3), 265-288. https://doi.org/10.2308/acch.2009.23.3.265
- 30. Leventis, S., Weetman, P., & Caramanis, C. (2005). Determinants of audit report lag: Some evidence from the Athens Stock Exchange. International Journal of Auditing, 9(1), 45-58. https://doi.org/10.1111/j.1099-1123.2005.00101.x
- 31. Li, E. X., & Ramesh, K. (2009). Market reaction surrounding the filing of periodic SEC reports. The Accounting Review, 84(4), 1171-1208. https://doi.org/10.2308/accr.2009.84.4.1171
- Owusu-Ansah, S., & Leventis, S. (2006). Timeliness of corporate annual financial reporting in Greece. European 32. Accounting Review, 15(2), 273-287. https://doi.org/10.1080/09638180500252078
- 33. Roychowdhury, S. (2006). Earnings management through real activities manipulation. Journal of Accounting and *Economics*, *42*(3), 335-370. https://doi.org/10.1016/j.jacceco.2006.01.002 Schelleman, C., & Knechel, W. R. (2010). Short-term accruals and the pricing and production of audit services.
- 34. Auditing: A Journal of Practice & Theory, 29(1), 221-250. https://doi.org/10.2308/aud.2010.29.1.221
- Simunic, D. A. (1980). The pricing of audit services: Theory and evidence. Journal of Accounting Research, 18(1), 35. 161-190. https://doi.org/10.2307/2490397
- 36. Simunic, D. A., & Stein, M. T. (1996). Impact of litigation risk on audit pricing: A review of the economics and the evidence. Auditing: A Journal of Practice & Theory, 15, 119-134. Retrieved from https://search.proquest.com /openview/30cbb48fb24bb1ec1422a7351cc29dec/1?pq-origsite=gscholar&cbl=31718
- 37. Straska, M., & Waller, H. G. (2014). Antitakeover provisions and shareholder wealth: A survey of the literature. Journal of Financial and Quantitative Analysis, 49(4), 933-956. https://doi.org/10.1017/S0022109014000532
- Sultana, N., Singh, H., & Van der Zahn, J. L. M. (2015). Audit committee characteristics and audit report lag. 38. International Journal of Auditing, 19(2), 72-87. https://doi.org/10.1111/ijau.12033
- Tanyi, P., Raghunandan, K., & Barua, A. (2010). Audit report lags after voluntary and involuntary auditor changes. *Accounting Horizons*, 24(4), 671-688. https://doi.org/10.2308/acch.2010.24.4.671 39

APPENDIX

Table A.1. Variable descriptions

Variable	Definition
ARPP365	The number of days from the firm's fiscal year-end to the date the audit report was signed scaled by 365.
EINDEX	A categorical variable that takes values from zero to six such that zero indicates that a firm that did not adopt any of the six entrenchment provisions used by Bebchuk et al. (2009) to create the EINDEX, while six indicates that a firm adopted all six entrenchment provisions used in the EINDEX.
LSPOWER	A categorical variable that takes values from zero to four such that zero indicates that the firm did not adopt any of the four entrenchment provisions that limit the ability of shareholders to enforce their will on management, while four indicates that a firm adopted all four provisions.
HOST	A categorical variable that takes values from zero to two such that zero indicates that the firm did not adopt any of the two entrenchment provisions that discourage hostile takeover of a firm, while two indicates that a firm adopted all two provisions.
MB	A categorical variable that takes values from zero to three such that zero indicates that the firm did not adopt any of the three entrenchment provisions that provide monetary benefits to managers based on the classification provided by Al Dah et al. (2017), when a takeover occurs, while three indicates that a firm adopted all three entrenchment provisions that provide monetary benefits.
NMB	A categorical variable that takes values from zero to three such that zero indicates that the firm did not adopt any of the three entrenchment provisions that do not provide monetary benefits to managers based on the classification provided by Al Dah et al. (2017), when a takeover occurs, while three indicates that a firm adopted all three entrenchment provisions that do not provide monetary benefits to managers.
ZSCORE	Altman's Z-score
TOBINQ	A measure of the firm's performance.
SIZE	Natural logarithm of total assets of the firm.
LEV	The leverage of the firm <i>is</i> measured by total liabilities divided by total assets.
ROA	The return on assets of the firm is measured as earnings before interest and taxes scaled by total assets.
BIG4	A binary variable equals 1 when the firm is audited by a BIG4 audit firm, and 0 otherwise.
MCW	A binary variable equals 1 when the firm records material control weaknesses, and 0 otherwise.
LNAFEE	Natural logarithm of the fees paid by the firm for non-audit services.
LAFEE	Natural logarithm of the fees paid by the firm for audit fees.
BUSSEG	A binary variable that takes the value of 1 when the firm has more than one business segment, 0 otherwise.
LIT	A binary variable equals 1 when the firm is engaged in a high litigious industry, and 0 otherwise (2-digit SIC codes 28, 35, 36, 38, and 73).
GC	A binary variable that takes the value of 1 if a firm is issued a going concern opinion, 0 otherwise.
DEC	A binary variable that takes the value of 1 if a firm has a fiscal year-end of December, 0 otherwise.
ACF	A binary variable equals 1 when the firm is an accelerated filer, and 0 otherwise.
LACF	A binary variable equals 1 when the firm is a large-accelerated filer, and 0 otherwise.
AUDCH	A binary variable that takes the value of 1 if a firm changes auditor during the year, 0 otherwise.

VIRTUS