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The Quality of Accounting Information in Politically Connected Firms

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Recent studies have documented systematic exchanges of favors between politicians and firms, and that connected firms, on average gain from political ties. This paper asks whether politically connected firms attempt to obscure such gains in their reported accounting information. We employ a recently built database on political ties, and find that the quality of accounting information disclosed by politically connected firms is significantly poorer than the quality of information of similar non-connected companies. Additionally, among connected firms, those that have stronger political ties have the poorest accruals quality. This evidence suggests that managers of connected firms appear to be less sensitive to market pressures to increase the quality of information. This choice seems to be justified in that lower quality reported earnings is associated with higher cost of debt *only* for the non-politically connected firms in the sample.

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The Quality of Accounting Information in Politically Connected Firms

Revelations that politicians and firms exchange favors appear almost daily in the media. These stories describe events across the spectrum of rich and poor, large and small, and in more and less corrupt societies. The few (but rapidly growing) academic studies on the subject document a wide range of benefits received by politically connected firms.¹ Presumably, these benefits are shared among the connected firms' owners. Similarly, there is widespread evidence that politicians can expect money, favors, and votes from various business interests.²

One aspect not considered by existing studies is how the quality of accounting information reported by publicly traded firms is affected by the existence of political connections. The ongoing debate over managerial incentives to manage earnings reported to the public focuses mostly on whether such management results in higher or lower accounting information quality.³ There is far less discussion of whether earnings management varies systematically with firm characteristics and/or the environment in which the firm operates. Recent evidence in Leuz et al. (2003) demonstrates that country-level factors, such as equity market development, investor rights, and legal enforcement are statistically significantly related to a country's median level of earnings management. These authors posit that managerial incentives interact with the legal and institutional environment to produce systematic differences across countries. We pursue this incentives-based explanation further by exploiting potentially important variation at the firm-level, such as whether the firm is controlled by a

¹ See, for example, Cull and Xu (2005), Johnson and Mitton (2003), and Khwaja and Mian (2005) for evidence of preferential access to credit; Backman (1999) and Dinç (2005) for evidence of preferential treatment by government owned banks; Agrawal and Knoeber (2001) for preferential treatment in the award of government contracts; and Faccio, Masulis and McConnell (2006) for bailouts.

² See Svensson (2003), Cull and Xu (2005), and Hellman, Jones and Kaufmann (2003) for a discussion of bribes, and Bertrand, Kramarz, Schoar, and Thesmar (2004), and Fan and Wong (2006) for vote-buying behavior. Bertrand et al. (2004) also discuss the employment consequences of connections and their impact on voting for politicians.

³ More generally, Hermalin and Weisbach (2007) argue that from a corporate governance perspective, activities that increase transparency may result in lower profits.

family or other large shareholder, or whether there is a direct connection to a politician. We find that these attributes do matter; indeed they remain statistically significant predictors of earnings quality even after country-level factors are controlled for in our regression analysis.

Earnings management is often seen as a tool used by managers attempting to mislead, hide, or obscure information from shareholders or the public (e.g., Schipper, 1989, or Shivakumar, 2000). Since politically connected firms derive net gains from their connections, one might expect to observe a greater frequency of such opportunistic earnings management (e.g., as connected insiders attempt to avoid sharing gains with investors). However, earnings management has its costs. That is, a number of studies have shown that poor earnings quality results in more frequent enforcement actions by the SEC (Dechow, Sloan, and Sweeney, 1996), lawsuits (Francis, Philbrick, and Schipper, 1994), a higher cost of both debt and equity capital (Francis, LaFond, Olsson, and Schipper, 2004, 2005), and poor future returns (Chan, Chan, Jegadeesh, and Lakonishok, 2006).

Thus, while there may be greater opportunity in politically connected firms to manipulate earnings, the costs of doing so can outweigh the gains. Empirically, we show that politically connected firms provide lower quality accounting earnings than do their non-connected peers. Moreover, we provide evidence that lower quality reported earnings is associated with higher cost of debt *only* for the non-politically connected firms in the sample. That is, companies that have political connections apparently face little negative consequences from their lower quality disclosures.

The empirical evidence we provide in this study is derived from two primary data bases. First, we employ a large firm-level data set on corporate political connections developed by Faccio (2006). Second, using underlying accounting data available in *Worldscope*, we construct a measure of accounting earnings quality based on the variability of discretionary accruals. As discussed above, we also check whether the effects of political connections on accounting information quality depend on characteristics of the ownership structure (e.g., the existence of large shareholders or family control).

The next section briefly describes how the political connections database was originally compiled. We then describe how we construct our proxy for accounting earnings quality. Sections 3 and 4 present our results and robustness tests. In section 5 we address the issue of endogeneity. We provide some justification for the reporting behavior of connected firms in section 6. We offer our conclusions in section 7.

I. Political ties.

A company is classified as politically connected if at least one of its large shareholders (anybody directly or indirectly controlling at least 10% of votes) or top directors (CEO, chairman of the board, president, vice-president, or secretary) is a member of parliament, a minister or a head of state, or is tightly related to a politician or party. These close relationships include cases of friendship, past top political (e.g., a head of state or minister) or corporate positions, as well as other ties identified in prior studies.

Connections with government ministers include cases in which the politician himself is a large shareholder or a top director, as well as cases where a politician's close relative (e.g., the son or daughter) holds such positions. Connections with a member of parliament, however, are recorded only when members of parliament themselves are shareholders or top directors, but do not consider cases when such positions are held by relatives. This was due to data limitations. Close relationships consist of cases of well-known friendship; share ownership or directorships held by former heads of state or prime ministers as well as former directorships held by current politicians, foreign politicians, and well documented relationships with political parties (Gomez and Jomo, 1997; and Johnson and Mitton, 2003).

To establish the presence of connections, the names of top company directors were taken from *Worldscope*, *Extel*, company websites, and *Lexis-Nexis*, and the names of blockholders were identified from Claessens, Djankov, and Lang (2000), Faccio and Lang (2002), the web sites of the stock

exchanges or their supervisory authorities, *Worldscope*, and *Extel*. The *Chiefs of State* directory (CIA, 2001) and the official website of the country's government and parliament were used to gather the names of members of parliament or government. In addition to these academic studies, *The Economist*, *Forbes* and *Fortune* are also used as primary sources of information for well-known cases of friendships.

For this study, we focus on countries with at least 5 politically connected companies in the Faccio (2006) database, which results in an initial sample of 21 countries and 17,435 companies. Since these connections are recorded between 1997 and 2001, and our analysis focuses on subsequent accounting information, endogeneity problems should be mitigated. We reconsider this issue in the robustness section. Matching this sample to those firms with the necessary accounting data ultimately reduces our sample as described below. The final sample of companies, including the number of connected companies, by country, is presented in Table 1, and is discussed in Section III below. We first describe our measure of earnings quality using data on accruals.

II. The quality of accounting earnings data.

Users of accounting information are often interested in assessing current performance as well as estimating future performance, and there is considerable debate concerning how well various accounting measures reflect these goals. Some of the firm's transactions require only a mechanical application of accounting rules while other types rely on the judgment of the firm's managers and accountants. This judgment introduces errors – both intentional as well as unintentional. However, with respect to *quality*, the source of the error does not matter; both types reduce the quality of reported earnings. We follow other researchers in focusing on (the variability of) such errors estimated from a benchmark model of accounting accruals. Hence, a higher variance of unexplained accruals is associated with lower quality earnings data.

Accounting researchers consider reported earnings as a primary indicator of information quality (e.g., Dechow 1994, and Dechow et al. 1998).⁴ Because earnings, and cash from operations, differ by the amount of reported accruals, a standard practice is to focus on the magnitude and the variability of accruals to assess their quality, and thus indirectly the quality of reported earnings. In general, accruals include both discretionary and non-discretionary components. Below we describe our empirical approach to estimating these components.

Sloan (1996) finds that the accrual portion of earnings is less persistent than cash flows, implying that firms with high levels of accruals have lower quality earnings. Other studies suggest that managers affect the direction and magnitude of accruals, including Healy and Whalen (1999), and Dechow, et al. (1996), and Richardson, et al. (2003). Dechow et al. (1996), for example, find that 38 firms subject to SEC accounting and auditing enforcement release reported higher accruals than a control group, and Richardson, et al. (2003) document that firms reported higher accruals in periods preceding earnings restatements. However, given the inherent negative autocorrelation in accruals, opportunistic use will result in ‘excessive’ variability in earnings.⁵ Hence, most research has emphasized the variability of accruals, in particular of discretionary accruals (Francis et al. 2004, 2005).

We estimate a pooled time-series cross-sectional regression for country j 's (non-discretionary) total current accruals as a function of the firm's change in sales ($\Delta Sales$), its gross investment in

⁴ Dechow (1994) reports that if stock returns are used as a measure of performance, earnings are more highly correlated with stock returns than are current period cash flows. In Dechow et al. (1998), earnings are shown to be a better proxy for future cash flows than current cash flows. Because of this, earnings are often used in firm valuation models as well as a measure of firm performance.

⁵ For example, suppose an economic event results in a firm recognizing sales in period t . However, the firm allows the customer to pay within 90 days. In this case, an accrual (accounts receivable) is created and will reverse in the future when the cash is collected.

physical plant and equipment (*GPPE*), and industry and time dummies, using financial data from *Worldscope*.⁶

$$\frac{TCA_{ijt}}{Assets_{ijt}} = \alpha_j \frac{\Delta Sales_{ijt}}{Assets_{ijt}} + \beta_j \frac{GPPE_{ijt}}{Assets_{ijt}} + \text{industry and year dummies} + \varepsilon_{ijt} \quad (1)$$

where: Δ is the first difference (with respect to time) operator, and Total Current Accruals (*TCA*) equal,

$$TCA_{ijt} = \Delta(\text{Current Assets})_{ijt} - \Delta(\text{Current Liabilities})_{ijt} - \Delta(\text{Cash})_{ijt} \\ + \Delta(\text{Short term and Current long term Debt})_{ijt},$$

Current Assets (WC02201) is the sum of cash and equivalents, receivables, inventories, prepaid expenses and other current assets.

Current Liabilities (WC03101) represents debt or other obligations that the company expects to satisfy within one year.

Cash (WC02001) represents the sum of cash and short term investments.

Short Term and Current Long Term Debt (WC03051) represents that portion of financial debt payable within one year including current portion of long term debt and sinking fund requirements of preferred stock or debentures.

⁶ As a robustness check, we estimate accruals using several different estimation techniques (including using Total Accruals instead of Total Current Accruals). One accruals estimate is computed following DeFond and Park (2001). In this approach, abnormal accruals are computed on a firm-level basis as the difference between realized working capital and an expectation of working capital based on the firm's prior period's historical relation between working capital to sales. A second approach used by McNichols (2002) includes lagged, concurrent, and future period's cash from operations in the estimated model for accruals (see Dechow and Dichev (2002)). Cash from operations is computed using the balance sheet approach. This second approach results in a smaller sample due to data restrictions. Using these measures of discretionary accruals, our results for both 5 and 10-year earnings quality measures are qualitatively unchanged.

Assets (WC02999) are the sum of total current assets, long term receivables, investment in unconsolidated subsidiaries, other investments, net property plant and equipment and other assets,

Sales (WC01001) are defined as gross sales and other operating revenue less discounts returns and allowances, and,

GPPE is the sum of net property, plant and equipment (WC02501) plus accumulated reserves for depreciation, depletion and amortization (WC02401).

The industry dummies are built based on Campbell's (1996) industry classification.

Equation (1) is estimated on a country-by-country basis including all firms with the requisite accounting data in any given year. The error term is the estimate of discretionary accruals. Accrual quality, for each firm i , is computed as the standard deviation of its residual ($\hat{\varepsilon}_{ijt}$), using the most recent 10 years available in *Worldscope*. In cases with less than 10 years available, we require at least 9 annual observations (during 1985-2005). This allows us to compute our first accruals quality variable for a sample of 5,987 firms. We were then able to match 4,906 of these firms with those in the Faccio (2006) database of political connections described in *Section I* above. Since regression (1) produces an estimate of discretionary accruals, a higher residual standard deviation reflects lower quality reported earnings.

Since requiring 10 years of data may introduce some severe survivorship bias in our results, we re-compute a similar measure using only 5 years of data, which is available for 13,778 firms.⁷ In this case, data on political connections is available for 7,318 of these companies. Most of this difference is due to firms being added to *Worldscope* after 2001, i.e. after the political connections data base was compiled.

⁷ Francis et al. (2004) and Francis et al. (2005), use 10-years, and 5-years of data respectively in estimating the standard deviation of accruals.

III. Descriptive statistics.

Matching the accounting data from *Worldscope* with the data on political connections, and requiring that there be at least one connected firm in each country, our final sample includes 7,318 firms, 322 of which are connected to a politician, from 21 countries. Table 1 presents a number of summary statistics at the country level. The overall impression is that there is wide variation in the sample across all of the country-level measures tabulated.

[Table 1 goes about here]

For example, there is wide variation in both the number of firms and the number of connected firms per country. The countries range from poor (India and Indonesia) to rich (e.g., Canada, Denmark, and the United States), from high corruption (the Philippines, India, Indonesia, Russia) to low corruption (Denmark and Singapore). Finally, the average firm size (2005 U.S. \$ market capitalization) varies widely, with relatively large firms sampled in Russia (only four firms included), France, Italy, Mexico (at least relative to per capita income), Switzerland, and the United States. We describe the additional variables presented in Table 1 in more detail when we discuss the country specific control variables (in section III.b) below.

Given this cross-country variation, we take several precautions in our multivariate regression analysis. First, we report OLS estimates with standard errors adjusted for clustering at the country level. Moulton (1990) strikingly illustrates how clustering within a group biases estimated standard errors downward. The problem affects the standard errors on aggregate effects (e.g., corruption), on individual-specific response variables (e.g., earnings quality). In particular, since intra-group observations (in this case, a country) share common, perhaps unobservable, characteristics, a fundamental assumption (i.e., independence) of most estimation methods is violated. In addition to adjusting the standard errors for clustering, a natural concern is that this wide cross-country variation might increase the potential for extreme observations, especially for OLS estimation. This suggests an

alternative estimation procedure might be better suited in our empirical setting. Hence, for robustness purposes, we also present estimates from a median regression framework, which minimizes the sum of the absolute value of residuals (see Koeneker and Hallock, 2001). Mostly, we find the results are robust to the inclusion/exclusion of outliers (we discuss the details in the robustness section below). Finally, we also repeated several of our benchmark specifications after eliminating entire countries, one at a time, from the analysis. Again, we find the results robust to this precaution.

III.a. Univariate Analysis

Table 2 presents the univariate associations of our two primary measures of accounting information quality vis-à-vis the specific connections variables, and firm ownership structures. In the first set of three columns we focus on the (10-year) standard deviation of discretionary accruals. Note that higher values of this variable indicate lower earnings quality. In the second set of three columns in the table we display the same information for the (5-year) standard deviation of discretionary accruals.

Each set of three rows present statistics by firm characteristic. For example, there are 205 connected firms for which we can compute the 10-year standard deviation, and its mean value for connected firms is 0.0646, and is 0.0598 for other firms. The difference between these means is statistically significant at the 7% level. The difference in earnings quality between family and non-family firms is highly statistically significant for both the 5-, and 10-year measures. For the 5-year measure we see that the number of connected and family owned firms increases to 322 and 1,445 respectively. Before considering specific types of firm-politician connections note that there are 933 family owned firms for which we can compute our 10-year measure of earnings quality. The difference in earnings quality between family and non-family firms is highly statistically significant (p -values < 0.001), with family firms exhibiting a higher mean (lower quality earning) than non family firms.

Connections can be divided into two sub-groups:

a) when a connection is tied to a government official (*Gov*), when a connection is tied to a minister of parliament (*MP*), or when the connection is through a friendship or other indirect connection (*Other*). These categories are not strictly mutually exclusive, i.e., there are 4 observations in which *Gov*=1 and *Other* =1, for the 10-year standard deviation of discretionary accruals measure of earnings quality, 5 observations in which *Gov*=1 and *Other* =1 and 1 observation in which *MP*=1 and *Other*=1, for the 5-year standard deviation of discretionary accruals measure of earnings quality.

b) when a connection is through a major shareholder (*Own*) or when the connection is through a director (*Director*). There is also a small overlap (of 11 observations) between these two measures for the 10-year measure, and 17 observations for the 5-year measure.

[Table 2 goes about here]

For specific connections we see that the strongest connections occur when they involve a high government official, or a close personal friendship, or when the connection is through a major shareholder (Faccio, 2006). Only when we focus on connections established at the director level are the differences in earnings quality statistically insignificant, and differences in earnings quality between firms with connections established through members of parliament versus non-connected companies are statistically significant (at the 7% level) only when we use the 10-year measure. In general however, results are very similar for either the 5-, or 10-year measures of earnings quality. Overall, the analysis suggests that there are statistically significant differences in discretionary accruals for: connected and non-connected firms, and for family versus non-family firms. Of course, this univariate analysis cannot answer the questions which types of connections are most important, or whether the connections depend on country characteristics, such as the overall level of corruption within a country, or on other firm attributes, e.g., its size, market to book, or leverage. For these questions we turn to a multiple regression analysis.

III.b. Control variables

Prior to reporting our regression results, we describe a number of firm and country characteristics that we use as controls in our multivariate analysis. Their inclusion is motivated by prior studies that have found them associated with the quality of accounting information at the firm or at the country level (Doidge, Karolyi, and Stulz, 2006, Fan and Wong, 2002, Leuz et al., 2003).

First, note that closely held firms, (e.g., family firms) may also be more inclined to establish political connections (Morck et al., 2000, Morck and Yeung, 2004). Hence, in an effort to insure that our political connections indicator is not mixing the effects of a firm's ownership structure and the effects of its connections on its reporting incentives, we introduce controls for family firms (*Family*), and for the size of the voting stake held by the largest ultimate shareholder (*Control*). The ownership and control data are taken from Claessens, Djankov, and Lang (2000), Faccio and Lang (2002), the web sites of the stock exchanges or their supervisory authorities, *Worldscope*, and *Extel*. The ownership related data are generally recorded as of the end of 1997.

We define *Family* as a dummy variable equal to 1 if the largest shareholder is a family or individual controlling at least 20% of the votes, and 0 otherwise. *Control* is constructed according to La Porta et al. (1999), who argue that an investor can gain control in a corporation by directly owning a controlling stake, or indirectly through holding shares in another corporation. In the first case, an investor's share of control rights will correspond to the fraction of votes he is entitled to express. In the second case, the investor's share of the control rights is measured by the weakest control link along the pyramid. We also allow for a non-linear impact of *Control* on accrual quality by including the squared value of this variable ($Control^2$) in some regression specifications.

Additional firm characteristics included in the regressions are computed from accounting data taken from Worldscope (with identifier), and measured for year 1997.⁸ First, the firm's size (*LnMkCap*), is measured as the natural log of the company's market capitalization (WC07210) in US dollars. We also control for the annual growth of sales during 1997 (*SalGrwt*), and standard deviation (*SalGrwtSD*) of sales (WC08631) during 1994-2005 (or the shorter period for which the data is available). Similarly, *MTB* is defined as the ratio of market capitalization to book value of equity (MTBV), and *Leverage* is total debt as percentage of total assets (WC08236).

Finally, the country-level variables (*Rights*, and *Corruption*) are also included as separate controls. *Rights* is the interaction between the index of Anti-Director Rights (La Porta et al., 1998), and the index of Legal Enforcement. Anti-Director Rights is defined by La Porta et al. (1998), as: "The index is formed by adding 1 when (1) the country allows shareholders to mail their proxy vote to the firm, (2) shareholders are not required to deposit their shares prior to the general shareholders' meeting, (3) cumulative voting or proportional representation of minorities in the board of directors is allowed, (4) an oppressed minorities mechanism is in place, (5) the minimum percentage of share capital that entitles a shareholder to call for an extraordinary shareholders' meeting is less than or equal to 10 percent, or (6) shareholders have pre-emptive rights that can be waived only by a shareholders' vote." La Porta et al. (1998), *Legal Enforcement* is computed as the average across the degree of efficiency of the judicial system, an assessment of the rule of law, and corruption. Given these variables are highly correlated we use their interaction rather than entering these two variables separately. Conceptually, the interaction should capture the combined effect of legal quality and whether there is enforcement of those laws.

⁸ Fixing the independent variables as of 1997 makes the assumption of independence and exogeneity more plausible given that our dependent variable is measured over a 10-year period ending in 2005. We did however repeat all of the empirical analysis defining the independent variables as of 2005. None of our conclusions are affected by this choice.

Our measure of *Corruption* within a country is taken from Transparency International (www.transparency.org). The index measures the “degree to which corruption is perceived to exist among public officials and politicians. It is a composite index, drawing on 14 different polls and surveys from seven independent institutions, carried out among business people and country analysts, including surveys of residents, both local and expatriate.” Corruption represents “the abuse of public office for private gain.” Transparency International’s index for 1997 is rescaled from 0 to 10, with higher values indicating higher corruption.

III.c. Regression Analysis

Table 3 presents OLS regressions in which the dependent variable is (see equation (1)), computed over a 10 year period (generally 1996-2005). The independent variables are measures of connections, ownership variables, and other company and country-level attributes. All regressions include industry dummies defined at the 4-digit SIC level. P-values, corrected for heteroskedasticity and clustering at the country level, are reported in parentheses below the coefficients estimates.

[Table 3 goes about here]

Regression (1) uses the all-inclusive measure of connections; we then partition these connections into individual types in regressions (4) and (5). In Regression (1), we find that connections are positively and significantly related to accruals quality (p -value < 0.04). The magnitude of the coefficient is economically large, and indicates that the presence of connections is associated with an 18% increase in the dependent variable (1.0959/6.0029).⁹ Consistent with earlier studies, we find that the standard deviation of discretionary accruals is lower for larger companies; on the other hand, it increases with sales growth and the volatility of sales growth. We also find a higher standard deviation of discretionary accruals in high market-to-book firms, and a lower standard deviation of discretionary accruals in highly levered companies. Surprisingly, we find no correlation between

⁹ 6.0029 is the sample average of the dependent variable.

accruals quality and the degree of corruption in a given country, or accruals quality and the quality of the legal system. This last result contrasts with earlier findings by Leuz et al. (2003). We are limited in the number of country-variables we can control for because of the relatively low number of countries in the study (21) and also because of the high correlation between several of the country variables. Our results are qualitatively unchanged after we control for industry fixed-effects (regression 2). To verify that our results are not driven by other country attributes, in Regression (3) we add country dummies (in place of the Rights and Corruption variables which are country specific). The previous results are robust to the new specification. The only major change is the increase in the explanatory power (R^2) of the regression model.

In Regressions (4) and (5) we partition connections into specific types. Previous studies (e.g., Faccio, 2006) have found that connections through the head of state or a government minister (either direct or through close relationships) are more valuable to firms than connections through a member of parliament. This likely reflects the larger benefits these firms receive and may need to “hide.” Similarly, previous findings document a larger impact of connections through a block-holder, relative to connections through a director. Because of this, we expect companies with stronger connections to exhibit lower accounting quality. Our results support this expectation and we find that the coefficients on the stronger types of connections are always larger than those of weaker connections types.

In regressions (6) and (7) we add some governance variables. Fan and Wong (2002) find that closely held companies disclose less meaningful accounting information. To the extent that our measures of connectedness are correlated with ownership variables, we need to assess the robustness of our prior results to the inclusion of these additional controls. For our purposes, we start by controlling for the concentration of control (voting rights) in the hands of the largest shareholder.¹⁰ To better separate the alignment and entrenchment effects present at different levels of concentration of

¹⁰ As the ownership data is available only for a sub-sample of the companies/countries in our dataset, we end up with a much smaller sample size in Regressions (5)-(7).

control, we also add the squared value of control in the model in regression (6). The results, however, indicate no statistical significance for this governance variable. Notice however, that connections remain significant. In regression (7) we isolate family firms. We find weak evidence that companies with a large family-blockholder use more discretion in reporting their accounting numbers, in that the coefficient of family firms is positive but not significant at conventional levels (p-value = 0.116).

To better control for the presence of outliers, we re-estimate the first regression using a median regression framework, which minimizes the sum of the absolute value of residuals (see Koeneker and Hallock, 2001). In these regressions, extreme observations are given less weight in the regression (the regression minimizes the absolute residuals rather than the squared residuals). In the regressions, standard errors are computed using bootstrap resampling, with 100 bootstrap replications, to control for heteroskedasticity (see Efron and Tibshirani, 1993, and Wu, 1986). Regression (8) reports these robustness results. These results indicate that outliers are not a problem: the coefficient of connections in fact changes very little when we use a median regression approach. If anything, the significance of our previous results is increased.¹¹

We recognize that using 10 years of data to compute our dependent variable in Table 3 potentially introduces a survivorship bias. To address this issue, we re-compute the standard deviation of residuals using the most recent 5 years (2001-2005) of data. In addition to reducing survivorship bias concerns, this measure has an added advantage. Namely, in this specification, the contemporaneous link between political connections and earnings quality is severed since the political connections dataset employed is based on a prior time period (i.e., between 1997 and 2001).¹² So, it is clear that now our measure of connectedness precedes the period over which we assess the quality of

¹¹ An additional concern, partly addressed by removing outliers, is the impact of mergers. Potentially, mergers could artificially induce variability in the dependent variable, thus leading us to categorize these firms as those with poor accounting information. Recent evidence in Ashbaugh-Skaife, Collins, Kinney, and LaFond (2006) however suggests that neither mergers nor restructurings have a statistically significant impact on measures of earnings quality, at least in the United States.

¹² Of course, this also has disadvantages, such as the new measure is more sensitive to outliers or temporary shocks.

earnings. We believe this leads to a stronger interpretation of our results in terms of “causality”. The new results are reported in Table 4. We continue to adjust standard errors for heteroskedasticity and clustering.

[Table 4 goes about here]

All the results on political connections are supported when we use the shorter period to measure earnings quality. Regression (1) shows that being connected results in a 19% (1.0899/5.7547) increase in the dependent variable (e.g., thus results in lower earnings quality). This result is significant at the 5% level. The positive relation between connections and our new measure of accruals quality is supported when we add industry dummies to the model, or control for the ownership structure of the company (regressions 6 and 7). Once again, when we partition connections by type, we continue to find a larger effect for connections with the head of state or government minister (both direct, and those through a close relationship) rather than connections with a simple member of parliament. Similarly, connections through the owner are associated with a higher standard deviation in the amount of discretionary accruals than connections through a director. The impact of the ownership structure of our sample firms continues to remain marginal. On the other hand, the previous results on the other control variables are generally supported. With accruals quality measured using 5-years of data, however, we lose significance for the connections variable when we add both industry and country dummies to the regressions. In regression (8) we use once again a median regression approach to control for the impact of outliers. Connections remain highly significant ($p\text{-value} < 0.01$) with this alternative specification.

IV. Robustness tests.

IV.a. Exclusion of individual countries

To provide assurances that our results are not driven by any specific country, we recursively repeat our estimations, omitting a single country each iteration. When the 10-year standard deviation of the discretionary accruals measure is used as dependent variable, the coefficients on connections are always positive, ranging from 0.8409 to 1.3308, and statistically significant (p-values range between 0.001 and 0.032). When the 5-year measure is employed, the coefficients on connections range from 0.4356 to 1.117. The coefficient is significant in 19 out of 21 regressions; only when we exclude Japan or Malaysia, does the coefficient lose statistical significance.

IV.b. Transformations of the dependent variable and alternative estimation methods

By construction, the dependent variable in our regression models is positive. Because of this truncation, the disturbance terms may not be normally distributed. A possible solution to this problem is to use a logistic transformation, where the new dependent variable is computed as:

$$z_i = \log \left(\frac{\frac{y_i}{\max(y_i) + \theta}}{1 - \frac{y_i}{\max(y_i) + \theta}} \right) = \alpha_0 + \alpha_1 \text{Conn}_i + \sum_{k=1}^n \alpha_k \text{Controls}_{k,i} + \varepsilon_i \quad i = 1, 2, \dots, n; \theta > 0. \quad (3)$$

In this case z_i satisfies $-\infty < z_i < \infty$, and thus the truncation problem is avoided. We can therefore employ this specification to assess the robustness of our previous results in Table 3. For space reasons, these robustness results are not tabulated. When we assume $\theta=0.0001$, and re-run the regressions, we find that the coefficient of *Connected* ranges between 0.135 and 0.252, while the p-values of this coefficient range from 0.007 to 0.028. We then allow θ to assume larger values (e.g., 0.01, 1, or 10) and find similar levels of significance.

As a second approach to this issue, we use the following inverse integral transformation to arrive at a new measure of accruals quality which is distributed as a standard normal variable. First let

Q_i be our accruals quality measure described above, i.e., $Q_i = \sqrt{\frac{1}{T-1} \sum_{t=1}^T (\hat{\varepsilon}_{it} - \hat{\bar{\varepsilon}}_i)^2}$, for firms $i=1, \dots, M$

is computed as the standard deviation of residuals ($\hat{\varepsilon}_{it}$) estimated from equation (1), using the most recent T years of data. If the residuals, $\hat{\varepsilon}_{i1}, \dots, \hat{\varepsilon}_{iT}$, are *iid* normal random observations¹³ with mean

$\mu = 0$ and variance σ^2 , then $U_i = \frac{(T-1)Q_i^2}{\sigma^2} \sim \chi_{(T-1)}^2$. Since μ is known, we can estimate σ^2 with

$\frac{1}{MT} \sum_{i=1}^M \sum_{t=1}^T (\hat{\varepsilon}_{it})^2$.¹⁴ Using the χ^2 cumulative density function, $F(U) = \int_0^{U_i} f(\delta) d\delta$, we transform the

U_i 's to probabilities, i.e., $F(U) \sim U[0,1]$. Finally, we use the inverted standard normal distribution,

$\Phi^{-1}(F(U))$, to transform these probabilities, $F(U)$, into a new measure of accruals quality, Q_i^* , which

are distributed $N(0,1)$. With these assumptions in mind, we transform our dependent variable using the

procedure described, and re-run the regressions reported in Table 3. We now find that the coefficient

of *Connected* ranges between 0.417 and 0.738. Its p-value is always significant, ranging from 0.006 to

0.058.

Finally, we re-run our specifications alternatively employing a Tobit estimation model, and using the log of our accruals quality measure as the dependent variable. All our results are unchanged.

¹³ It is important that the residuals are identically distributed. Otherwise we would need to define

$$U_i = \frac{(T-1)Q_i^2}{\sigma_i^2} \sim \chi_{(T-1)}^2, \text{ and estimate } \sigma_i^2 \text{ with } \frac{1}{T} \sum_{t=1}^T (\hat{\varepsilon}_{it})^2$$

¹⁴ The formula for the estimate of σ^2 is not strictly correct since there may be a different T for each firm i .

V. Endogeneity.

One potential concern for the estimates reported so far is that the decision to form connections may not be exogenous. In fact there may be reciprocal causation, leading our reported OLS estimates to be biased and inconsistent. This issue was partly addressed in Table 4, when we considered connections formed *prior* to our measure of accruals quality; however, in this section we describe results obtained from an instrumental variables estimation. Our choice of instrument is motivated by previous studies finding strong localized effects of political connections (e.g. Roberts 1990, Agrawal, and Knoeber, 2001). In the first stage regression, we predict (via a probit estimation) connections using the location of the company's headquarters, as well as the other independent variables included in previous regressions. Specifically, *Capital* is a dummy variable that takes the value 1 if the company is headquartered in the capital of its country and 0 otherwise. The first-stage fitted values for connected (*I_Connected*) are then used in the second stage OLS regressions.¹⁵

[Table 5 goes about here]

Table 5 reports results for each of the two measures of earnings quality discussed in Tables 3 and 4. For each dependent variable we report both the first- and second-stage results. In all specifications the presence of a firm's headquarters in the capital city is a (highly) statistically significant predictor of whether the firm establishes a political connection. Moreover, in each of the second stage regressions, the instrumented value of connections is statistically significant as well. In all cases the estimated coefficient is larger than those reported using OLS, and they remain highly statistically significant. Other results are also similar. For example, the standard deviation of discretionary accruals is smaller for large firms. The only difference from the previous results is that we now find that firms in more corrupt societies have lower discretionary accruals, while firms headquartered in countries with better legal systems tend to have poorer quality accruals. We

¹⁵ Econometrically, we implement this using the STATA command `cdsimeq`, which corrects the standard errors for the fact that the first-stage regression is a probit estimation.

recognize that the significance of the country variables in this IV approach may be overstated given that we cannot properly control for clustering.

VI. Why don't connected firms care about the consequences of poor earnings quality?

We have shown that, on average, the accruals quality of connected companies is poorer than the quality of accruals of non-connected firms. From an empirical standpoint, a number of studies have shown that poor accrual quality results in a number of negative consequences at the firm level, including a higher cost of capital, or a higher likelihood of a lawsuit. Thus the question becomes why connected firms appear not to care about the consequences. One possibility is that their political ties allow mitigating or even eliminating such effects. So, for example, it might be possible that lenders of connected firms provide them with relatively cheap capital, regardless to the opacity/quality of their accounting information.

To address this question in detail, we focus on the cost of debt. This choice is driven by the fact that the overwhelming majority of studies on political ties document preferential access to credit for connected firms (Cull and Xu, 2005, Dinç, 2005, Johnson and Mitton, 2003, Khwaja and Mian, 2005). Thus, perhaps due to political pressure on (government owned) banks, despite their poor accruals quality, connected firms are able to avoid paying higher interest rates. If that were the case, this would provide a justification as to why connected firms exhibit significantly poorer accruals quality despite the negative consequences associated with it.

In our analysis, we follow Francis et al. (2005), and compute the cost of debt as the ratio of a firm's interest expense in year t (in our case 2005) (WC01251) over the average interest bearing obligations outstanding as of the end of year $t-1$ and t (WC03255). This gives us the realized cost of debt in the company's local currency. To make these rates comparable across countries, we convert them in U.S. dollar terms using the covered interest parity. Thus, given a cost of borrowing in the local currency of i_{LC} , we define the dollar cost (i_{US}) of borrowing local currency,

$$i_{US} = i_{LC} \cdot \left[1 + \frac{e_1 - e_0}{e_0} \right] + \frac{e_1 - e_0}{e_0},$$

where e_0 and e_1 are the spot and the one year forward rates as of the beginning of 2005 ($e=LC/\$$). Table 6 reports the univariate results. Generally, we find that the cost of debt is higher for companies with poorer accruals. This tends to be true both for connected and non-connected firms. However, there seem to be a larger premium applied to non-connected firms that report poor accounting information. Once again, it is necessary to evaluate how the results stand in a multivariate framework.

[Table 6 goes about here]

As standard in the literature, in the regressions we control for a number of factors that are known to influence interest rates: leverage, size, cash flow volatility, return on assets, and the interest coverage ratio. *Leverage* is total debt as percentage of total assets (WC08236) as of year end t-1; size (*LnMkCap*), is measured as the natural log of the company's market capitalization (WC07210) in US dollars, as of year end t-1; volatility is the standard deviation (*SalGrwtSD*) of sales growth during 1994-2005 (or the shorter period for which the data is available). We define *Return on Assets* (WC08326) as operating income (after taxes) to total assets in year t-1; the *Interest Coverage Ratio* is the ratio of operating income (WC01250) to interest expense (WC01251) in year t-1. Because of the presence of outliers, we toss out companies with a cost of debt in the top/bottom percentile, as well as companies with an interest coverage ratio in the top/bottom percentile.

We run separate regressions for connected and non-connected firms. Similarly, separate regressions are run for each of our earnings quality measure. The results are reported in Table 7. We find that, for non-connected firms, lower accruals quality (higher standard deviation of accruals, results in a significantly higher cost of debt (regressions 1, and 3). The cost of debt is negatively related with sales growth volatility, and leverage. These results are perhaps surprising. However, Francis et al. (2005) also find a negative relation between leverage and the cost of debt. The offered

the explanation that this may be driven by companies who chose not to lever because of the particularly high cost of debt they face. Another possibility is that some companies may repay their debt immediately before the end of the year in order to hide their financial position to the market; for these companies we would end up inferring high interest rates because of the procedure used to backup the cost of debt. We generally don't find any relation between ROA and the interest coverage ratio, and the cost of debt.

The results with respect to our control variables hold for the sample of connected firms (regressions 2, and 4). However, for connected firms we fail to find any relationship between earnings quality (when measured as standard deviation of discretionary accruals) and the cost of debt. Moreover, the difference between the coefficient of *Stresid* (10 yrs) in regressions (1) and (2) (non-connected vs connected) is significant with a p-value of 0.008; the difference between the coefficient of *Stresid* (5 yrs) in regressions (3) and (4) (non-connected vs connected) is significant with a p-value of less than 0.001. This indicates that, despite their poor accruals quality, connected firms are not penalized by their lenders, which in turn, may be due to pressures faced by lenders, especially government owned banks. From our perspective this result explains why connected firms do not appear to care about the quality of their earnings, in that there is no penalty applied to those firms that report lower quality information.

[Table 7 goes about here]

VII. Conclusions.

This study documents that the quality of reported accounting information is systematically poorer for firms with political connections than for firms lacking such connections. This conclusion is based on an analysis of accounting data from more than 7,000 firms in 21 countries. Political connections appear to be a more important predictor of accounting quality than several commonly

used country level variables such as the overall level of corruption, the quality of the legal system, or shareholder rights indicators. Indeed, after controlling for firm-specific factors (political connections, ownership structure, size, growth, leverage, market-to-book ratios), country-level factors are rarely statistically significant in our regressions. Moreover, connections occurring through a block-holder, and to politicians higher in the government have even stronger effects.

Previous research has found that there are costs associated with lower quality accounting information, and our results are consistent with this finding, but with a twist. In particular, we provide evidence that lower quality reported earnings is associated with higher cost of debt *only* for the non-politically connected firms in the sample. That is, companies that have political connections apparently face little negative consequences from their lower quality disclosures.

To check the robustness of these results we have considered alternative measures of earnings quality, as well as performing the estimations using several different approaches (including OLS, IV, tobit, median regressions, re-computing our dependent variables using a logistic transformation, an inverse integral transformation, and taking logs. We have also re-run the regressions eliminating outliers, and countries one at a time). With one exception, the results are robust to these alternatives.

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Table 1. Countries, firms, and, connected firms included in the sample.

The sample of firms was defined by two steps. In step 1, countries with more than 5 connected companies were selected from data provided by Faccio (2006). In step 2, we also require these firms to have a minimum of 9 consecutive years of accounting information available in *Worldscope* that allows us to compute our earnings quality measures. Accounting Standards, Anti-Director Rights, and Legal Enforcement are taken from La Porta et al. (1998) (<http://post.economics.harvard.edu/faculty/shleifer/Data/l&fweb.xls>). Corruption Index is from Transparency International. Growth Volatility is defined as the standard deviation of the annual growth in real GDP (in domestic currency). Inflation volatility is defined as the standard deviation of annual inflation over the period 1985-2005. In cases where fewer observations are available, we compute the standard deviation over the longest period for which a country has data. Per Capita income is defined for 2005, on a Purchasing Power Parity basis, and expressed in U.S. dollars. The source for inflation, real GDP, and Per Capita Income is the World Economic Outlook Data base from the IMF, available at: <http://www.imf.org/external/ns/cs.aspx?id=28>.

<i>Panel A:</i>		Number of Companies	Number Connected	Corruption Index	Accounting Standards	Anti-Director Rights
1	Belgium	44	3	2.5	61	0
2	Canada	246	2	1.5	74	5
3	Denmark	89	3	0.5	62	2
4	France	301	14	2.9	69	3
5	Germany	323	9	1.8	62	1
6	Hong Kong	245	3	2.0	69	5
7	India	201	7	7.2	57	5
8	Indonesia	93	25	8.0	NA	2
9	Italy	93	10	5.2	62	1
10	Japan	1806	27	3.1	65	4
11	Malaysia	298	62	5.0	76	4
12	Mexico	54	8	6.4	60	1
13	Philippines	62	3	7.4	65	3
14	Russia	3	2	7.2	NA	NA
15	Singapore	149	10	0.7	78	4
16	South Korea	187	7	5.5	62	2
17	Switzerland	115	4	0.9	68	2
18	Taiwan	195	4	4.4	65	3
19	Thailand	150	18	6.4	64	2
20	UK	732	85	1.4	78	5
21	US	1932	16	2.5	71	5

<i>Panel B:</i>		Legal Enforcement	Growth Volatility	Inflation Volatility	Per Capita Income (US\$)	Average (US\$) Market Cap
1	Belgium	9.4	0.01	0.98	31,244	1,147,102
2	Canada	9.8	0.02	1.46	34,273	1,194,607
3	Denmark	10	0.02	1.07	34,740	765,399
4	France	8.7	0.01	1.12	29,187	1,613,997
5	Germany	9.1	0.02	1.28	30,579	1,624,611
6	Hong Kong	8.9	0.04	5.17	33,479	806,830
7	India	5.6	0.02	3.26	3,320	419,042
8	Indonesia	2.9	0.05	11.34	4,459	272,777
9	Italy	7.1	0.01	1.97	28,534	2,209,631
10	Japan	9.2	0.02	1.24	30,615	1,170,736
11	Malaysia	7.7	0.04	1.40	11,201	426,697
12	Mexico	5.4	0.03	36.57	10,186	2,192,87
13	Philippines	3.5	0.02	5.32	4,923	275,114
14	Russia	NA	0.07	242.80	11,041	11,904,822
15	Singapore	8.9	0.04	1.29	28,368	522,435
16	South Korea	5.6	0.04	2.22	20,590	135,558
17	Switzerland	10	0.01	1.66	32,571	3,035,693
18	Taiwan	7.4	0.03	1.69	27,721	884,693
19	Thailand	4.9	0.05	2.09	8,368	111,174
20	UK	9.2	0.01	1.95	30,436	1,414,390
21	US	9.5	0.01	1.01	41,399	2,739,813

Table 2. Accounting Information Quality and Political Connections: Univariate Statistics.

The measures of accounting information quality are the standard deviation (computed using the most recent 5-, or 10-years) of the firm's discretionary accruals (estimated from equation 1 in the text). *Connected* is a dummy variable set equal to 1 if the company is connected to a politician and 0 otherwise. A company is classified as politically connected if at least one of its large shareholders (anybody directly or indirectly controlling at least 10% of votes) or top directors (CEO, chairman of the board, president, vice-president, or secretary) is a member of parliament, a minister or a head of state, or is tightly related to a politician or party. For specific types of political connections, *Gov* takes the value 1 when the firm's connection is with a government official; *MP* takes the value 1 when the firm's connection is with a member of parliament; *Other* takes the value 1 when the connection is a friendship or other indirect connection; *Own* takes the value 1 when the connection is through a major shareholder; *Director* takes the value 1 when the connection is through a director of the firm. *Family* is a dummy variable set equal to 1 if the largest shareholder is a family or individual who controls at least 20% of the votes and 0 otherwise.

	<i>10-year standard deviation of Discretionary accruals</i>		<i>5-year standard deviation of Discretionary accruals</i>	
	N. of Obs.	Mean	N. of Obs.	Mean
Connected = 1	205	0.0646	322	0.0649
Connected = 0	4,701	0.0598	6,996	0.0572
Difference (p-value)		(0.073)		(0.002)
Family = 1	933	0.0676	1,445	0.0659
Family = 0	1,348	0.0524	2,075	0.0523
Difference (p-value)		(0.000)		(0.000)
<i>Specific types of political connections:</i>				
Gov = 1	32	0.0845	48	0.0785
Gov = 0	4,874	0.0599	7,270	0.0574
Difference (p-value)		(0.000)		(0.001)
MP = 1	112	0.0538	182	0.0558
MP = 0	4,794	0.0602	7,136	0.0576
Difference (p-value)		(0.072)		(0.581)
Other = 1	65	0.0751	98	0.0776
Other = 0	4,841	0.0598	7,220	0.0573
Difference (p-value)		(0.001)		(0.000)
own = 1	91	0.0763	142	0.0747
own = 0	4,815	0.0597	7,176	0.0572
Difference (p-value)		(0.000)		(0.000)
Director = 1	125	0.0558	197	0.0576
Director = 0	4,781	0.0601	7,121	0.0575
Difference (p-value)		(0.198)		(0.986)

Table 3. Standard deviation of discretionary accruals: OLS and median regressions.

The dependent variable is defined as the standard deviation (over the most recent 10-years) of the firm's discretionary accruals (estimated from equation 1 in the text) $\times 100$. *Connected* is a dummy variable set equal to 1 if the company is connected to a politician and 0 otherwise. A company is classified as politically connected if at least one of its large shareholders (anybody directly or indirectly controlling at least 10% of votes) or top directors (CEO, chairman of the board, president, vice-president, or secretary) is a member of parliament, a minister or a head of state, or is tightly related to a politician or party. For specific types of political connections, *Gov* takes the value 1 when the firm's connection is with a government official; *MP* takes the value 1 when the firm's connection is with a minister of parliament; *Other* takes the value 1 when the connection is a friendship or other indirect connection; *Own* takes the value 1 when the connection is through a major shareholder; *Director* takes the value 1 when the connection is through a director of the firm. *Control* is the voting stake held by the largest ultimate shareholder. *Family* is a dummy variable set equal to 1 if the largest shareholder is a family or individual who controls at least 20% of the votes and 0 otherwise. *LnMkCap*, is the natural log of the company's market capitalization in US dollars. *SalGrwtSD* is the standard deviation of the annual growth of sales. *Salgrwt* is the annual growth of sales. *MTB* is the ratio of market capitalization to book value of equity. *Leverage* is total debt as percentage of total assets. *Rights* is the interaction between the index of Anti-Director Rights, and the index of Legal Enforcement. *Anti-Director Rights* is taken from La Porta et al. (1998). "The index is formed by adding 1 when (1) the country allows shareholders to mail their proxy vote to the firm, (2) shareholders are not required to deposit their shares prior to the general shareholders' meeting, (3) cumulative voting or proportional representation of minorities in the board of directors is allowed, (4) an oppressed minorities mechanism is in place, (5) the minimum percentage of share capital that entitles a shareholder to call for an extraordinary shareholders' meeting is less than or equal to 10 percent, or (6) shareholders have pre-emptive rights that can be waived only by a shareholders' vote." *Legal Enforcement* is computed as the average across the degree of efficiency of the judicial system, an assessment of the rule of law, and corruption. *Corruption* is from Transparency International (www.transparency.org). The TI index measures the "degree to which corruption is perceived to exist among public officials and politicians. It is a composite index, drawing on 14 different polls and surveys from seven independent institutions, carried out among business people and country analysts, including surveys of residents, both local and expatriate." Corruption represents "the abuse of public office for private gain." The original index is rescaled from 0 to 10, higher value for higher corruption. Industry dummies are defined at the 4-digit SIC level. Models (1) thru (7) are ordinary least squares estimates. In the regressions, standard errors are adjusting for heteroskedasticity and clustering of observations at the country level. P-values are reported in parentheses below the coefficient estimates. Model (8) is a median regression. In the median regressions, standard errors are computed using bootstrap resampling (with 100 bootstrap replications) to control for heteroskedasticity (see Efron and Tibshirani, 1993, and Wu, 1986). P-values are reported in parentheses below the coefficient estimates.

Table 3. Standard deviation of discretionary accruals: OLS and median regressions (Cont'd).

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Connected	1.0959 (0.036)	1.1804 (0.004)	0.8062 (0.003)			1.2849 (0.007)	1.2911 (0.008)	0.9681 (0.003)
Gov				1.8251 (0.015)				
Mp				0.2774 (0.435)				
Oth				2.2614 (0.000)				
Own					2.0885 (0.001)			
Dir					0.3072 (0.373)			
Control						0.0266 (0.454)		
Control ²						-0.0002 (0.618)		
Family							0.6506 (0.116)	
LnMkCap	-0.7074 (0.000)	-0.7044 (0.000)	-0.6049 (0.000)	-0.7030 (0.000)	-0.7017 (0.000)	-0.6125 (0.000)	-0.6201 (0.000)	-0.6594 (0.000)
SalGrwtSD	0.0001 (0.000)	0.0001 (0.000)	0.0001 (0.088)	0.0001 (0.000)	0.0001 (0.000)	0.0001 (0.000)	0.0001 (0.000)	0.0001 (0.947)
SalGrwt	0.0000 (0.031)	0.0000 (0.195)	0.0000 (0.172)	0.0000 (0.211)	0.0000 (0.205)	0.0085 (0.006)	0.0085 (0.007)	0.0000 (0.996)
MTB	0.0175 (0.001)	0.0085 (0.013)	0.0065 (0.005)	0.0071 (0.023)	0.0074 (0.020)	0.0099 (0.572)	0.0117 (0.482)	0.0274 (0.264)
Leverage	-0.0215 (0.000)	-0.0086 (0.046)	-0.0017 (0.660)	-0.0089 (0.039)	-0.0087 (0.044)	-0.0047 (0.542)	-0.0055 (0.445)	-0.0218 (0.000)
Rights	-0.0009 (0.973)	-0.0120 (0.625)		-0.0125 (0.600)	-0.0121 (0.613)	-0.0432 (0.133)	-0.0452 (0.113)	0.0018 (0.691)
Corruption	0.0402 (0.786)	0.0070 (0.963)		-0.0190 (0.899)	-0.0126 (0.933)	-0.1638 (0.384)	-0.1716 (0.370)	0.0805 (0.028)
Intercept	15.2029 (0.000)	15.3685 (0.000)		15.4619 (0.000)	15.4079 (0.000)	14.6782 (0.000)	15.0826 (0.000)	13.5768 (0.000)
Country dummies	No	No	Yes	No	No	No	No	No
Industry dummies	No	Yes	Yes	Yes	Yes	Yes	Yes	No
Number of obs.	4,506	4,506	4,793	4,506	4,506	2,030	2,030	4,506
Adjusted R ²	0.1493	0.2469	0.3221	0.2492	0.2485	0.2743	0.2762	0.0926

Table 4. Standard deviation of discretionary accruals: OLS and median regressions.

The dependent variable, is defined as the standard deviation (over the most recent 5-years) of the firm's discretionary accruals (estimated from equation 1 in the text) $\times 100$. Independent variables are defined in Table 3. Models (1) thru (7) are ordinary least squares estimates. In the regressions, standard errors are adjusting for heteroskedasticity and clustering of observations at the country level. P-values are reported in parentheses below the coefficient estimates. Model (8) is a median regression. In the median regressions, standard errors are computed using bootstrap resampling (with 100 bootstrap replications) to control for heteroskedasticity (see Efron and Tibshirani, 1993, and Wu, 1986). P-values are reported in parentheses below the coefficient estimates.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Connected	1.0899 (0.049)	0.9556 (0.057)	0.5492 (0.187)			1.2646 (0.026)	1.2586 (0.026)	0.7443 (0.004)
Gov				1.4355 (0.077)				
Mp				0.0180 (0.959)				
Oth				2.5982 (0.000)				
Own					2.0115 (0.005)			
Dir					0.0942 (0.749)			
Control						0.0367 (0.093)		
Control ²						-0.0003 (0.142)		
Family							0.4439 (0.187)	
LnMkCap	-0.7072 (0.000)	-0.6900 (0.000)	-0.6209 (0.000)	-0.6927 (0.000)	-0.6890 (0.000)	-0.6151 (0.000)	-0.6372 (0.000)	-0.5595 (0.000)
SalGrwtSD	0.0002 (0.000)	0.0002 (0.000)	0.0001 (0.027)	0.0002 (0.000)	0.0002 (0.000)	0.0002 (0.000)	0.0002 (0.000)	0.0002 (0.374)
SalGrwt	0.0000 (0.142)	0.0000 (0.061)	0.0000 (0.783)	0.0000 (0.043)	0.0000 (0.076)	0.0012 (0.022)	0.0011 (0.022)	0.0000 (0.988)
MTB	0.0035 (0.338)	0.0011 (0.781)	0.0004 (0.900)	0.0009 (0.819)	0.0009 (0.811)	0.0132 (0.069)	0.0138 (0.050)	0.0095 (0.337)
Leverage	-0.0134 (0.008)	-0.0045 (0.218)	0.0035 (0.186)	-0.0051 (0.179)	-0.0048 (0.188)	-0.0018 (0.692)	-0.0030 (0.467)	-0.0182 (0.000)
Rights	-0.0231 (0.374)	-0.0349 (0.138)		-0.0352 (0.126)	-0.0349 (0.132)	-0.0558 (0.023)	-0.0614 (0.016)	-0.0186 (0.000)
Corruption	-0.0953 (0.527)	-0.1234 (0.436)		-0.1531 (0.356)	-0.1451 (0.373)	-0.2683 (0.110)	-0.2827 (0.103)	-0.0298 (0.471)
Intercept	15.7190 (0.000)	15.8017 (0.000)		15.9520 (0.000)	15.8658 (0.000)	15.0163 (0.000)	15.9436 (0.000)	12.5822 (0.000)
Country dummies	No	No	Yes	No	No	No	No	No
Industry dummies	No	Yes	Yes	Yes	Yes	Yes	Yes	No
Number of obs.	6,519	6,519	6,919	6,519	6,519	3,114	3,114	6,519
Adjusted R ²	0.1082	0.1766	0.2282	0.1796	0.1783	0.2187	0.2168	0.0604

Table 5. Robustness tests: Two-stage probit least squares.

Regressions (1) and (3) are first stage probit regressions, in which the dependent variable is *Connected*. *Connected* is a dummy variable set equal to 1 if the company is connected to a politician and 0 otherwise. A company is classified as politically connected if at least one of its large shareholders (anybody directly or indirectly controlling at least 10% of votes) or top directors (CEO, chairman of the board, president, vice-president, or secretary) is a member of parliament, a minister or a head of state, or is tightly related to a politician or party. Regressions (2) and (4) are second stage (OLS) estimates, in which *I_Connected* is the predicted value of *Connected* estimated in the first stage. The instrumental variable used, *Capital*, is a dummy variable set equal to 1 if the company is headquartered in the capital of its country, and 0 otherwise. In regression (2), the dependent variable, *Stresid*, is defined as the standard deviation (over the most recent 10-years) of the firm's discretionary accruals (estimated from equation 1 in the text) $\times 100$. In regression (4), the dependent variable is defined as the standard deviation (over the most recent 5-years) of the firm's discretionary accruals (estimated from equation 1 in the text) $\times 100$. Independent variables are defined in Table 3. P-values are reported in parentheses below the coefficient estimates. The estimation is performed using the *cdsimeq* command in Stata (Maddala, 1983, Keshk, 2003).

	(1) First stage (Probit)	(2) Second stage (OLS)	(3) First stage (Probit)	(4) Second stage (OLS)
Dep. variable:	Connected	Stresid (10 yrs)	Connected	Stresid (5 yrs)
Capital	0.6413 (0.000)		0.6756 (0.000)	
I_Connected		1.1538 (0.000)		1.5369 (0.000)
LnMkCap	0.1157 (0.000)	-0.8250 (0.000)	0.1007 (0.000)	-0.8268 (0.000)
SalGrwtSD	0.0000 (0.876)	0.0001 (0.000)	0.0000 (0.858)	0.0002 (0.000)
SalGrwt	0.0001 (0.925)	0.0028 (0.001)	0.0001 (0.164)	0.0008 (0.003)
MTB	-0.0002 (0.976)	0.0095 (0.197)	-0.0083 (0.036)	0.0213 (0.001)
Leverage	0.0015 (0.252)	-0.0002 (0.913)	0.0000 (0.946)	0.0001 (0.101)
Rights	-0.0081 (0.012)	0.0162 (0.005)	-0.0075 (0.009)	0.0006 (0.916)
Corruption	0.0838 (0.000)	-0.1133 (0.010)	0.0845 (0.000)	-0.2243 (0.000)
Intercept	-3.3803 (0.000)	18.1796 (0.000)	-3.1427 (0.000)	19.1365 (0.000)
Number of obs.	4,393		5,765	

Table 6. Discretionary accruals and the cost of debt: Univariate analysis.

The table reports the average cost of debt for companies falling into different groups. *Cost of Debt*, is the ratio of a firm's interest expense in year t (in our case 2005) over the average interest bearing obligations outstanding as of the end of year $t-1$ and $t \times 100$. This ratio is converted in U.S. dollar terms using the covered interest parity. *Connected* is a dummy variable set equal to 1 if the company is connected to a politician and 0 otherwise. A company is classified as politically connected if at least one of its large shareholders (anybody directly or indirectly controlling at least 10% of votes) or top directors (CEO, chairman of the board, president, vice-president, or secretary) is a member of parliament, a minister or a head of state, or is tightly related to a politician or party. *Stresid (10 yrs)* is defined as the standard deviation (over the most recent 10-years) of the firm's discretionary accruals (estimated from equation 1 in the text). *Stresid (5 yrs)* is defined as the standard deviation (over the most recent 5-years) of the firm's discretionary accruals (estimated from equation 1 in the text). The first number is the average cost of debt (%); the second figure (in parenthesis) is the p-value of a t-stat for difference from zero; the third number is the number of observations.

<u>Panel A: Accruals quality proxy: Stresid (10 yrs)</u>		
	Connected	Non-connected
Stresid (10 yrs) \geq sample median	6.99%	7.84%
	(0.00)	(0.00)
	104	2,015
Stresid (10 yrs) $<$ sample median	5.56%	6.00%
	(0.00)	(0.00)
	81	2,037
<i>Difference</i>	1.43%	1.84%
	(0.04)	(0.00)
	185	4,052
<u>Panel B: Accruals quality proxy: Stresid (5 yrs)</u>		
	Connected	Non-connected
Stresid (5 yrs) \geq sample median	6.92%	7.74%
	(0.00)	(0.00)
	138	2,658
Stresid (5 yrs) $<$ sample median	5.76%	5.95%
	(0.00)	(0.00)
	114	2,682
<i>Difference</i>	1.16%	1.79%
	(0.04)	(0.00)
	252	5,340

Table 7. Discretionary accruals and the cost of debt.

The dependent variable, *Cost of Debt*, is the ratio of a firm's interest expense in year t (in our case 2005) over the average interest bearing obligations outstanding as of the end of year $t-1$ and $t \times 100$. This ratio is converted in U.S. dollar terms using the covered interest parity. *Stresid (10 yrs)* is defined as the standard deviation (over the most recent 10-years) of the firm's discretionary accruals (estimated from equation 1 in the text). *Stresid (5 yrs)* is defined as the standard deviation (over the most recent 5-years) of the firm's discretionary accruals (estimated from equation 1 in the text). *Leverage* is total debt as percentage of total assets as of year end $t-1$; *LnMkCap* is measured as the natural log of the company's market capitalization in US dollars, as of year end $t-1$; volatility is the standard deviation (*SalGrwtSD*) of sales growth during 1994-2005 (or the shorter period for which the data is available). *ROA* is the ratio of operating income (after taxes) to total assets in year $t-1$; the *Interest Coverage Ratio* is the ratio of operating income to interest expense in year $t-1$. Because of the presence of outliers, we toss out companies with a cost of debt in the top/bottom percentile, as well as companies with an interest coverage ratio in the top/bottom percentile. All models are ordinary least squares estimates. In the regressions, standard errors are adjusting for heteroskedasticity and clustering of observations at the country level. P-values are reported in parentheses below the coefficient estimates.

	(1) Non-connected	(2) Connected	(3) Non-connected	(4) Connected
Stresid (10 yrs)	24.7148 (0.0000)	-1.2526 (0.8550)		
Stresid (5 yrs)			23.0416 (0.0000)	-0.0266 (0.9950)
Leverage	-0.0505 (0.0010)	-0.0625 (0.0910)	-0.0260 (0.0340)	-0.0456 (0.0280)
LnMkCap	-0.1552 (0.1410)	-0.3663 (0.0880)	-0.1613 (0.1220)	-0.3318 (0.0130)
SalGrwtSD	-0.0000 (0.0000)	-0.0002 (0.0000)	-0.0000 (0.0350)	-0.0002 (0.0000)
ROA	-0.0051 (0.7300)	-0.0453 (0.5330)	-0.0002 (0.9180)	-0.0318 (0.5750)
Interest Cov. Ratio	-0.0003 (0.8520)	0.0051 (0.5540)	-0.0003 (0.8470)	0.0029 (0.6460)
Intercept	8.7529 (0.0000)	13.3557 (0.0030)	8.2945 (0.0000)	12.1431 (0.0000)
Number of obs.	3,947	182	5,164	245
Adjusted R ²	0.0494	0.1014	0.0371	0.0841