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2016 Election Shock: Trump, Taxes and  
Trade**

Alexander F Wagner, Richard Zeckhauser and  
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**FINANCIAL ECONOMICS**



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*Alexander F Wagner, Richard Zeckhauser and Alexandre Ziegler*

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Centre for Economic Policy Research  
33 Great Sutton Street, London EC1V 0DX, UK  
Tel: +44 (0)20 7183 8801  
[www.cepr.org](http://www.cepr.org)

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## Abstract

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JEL Classification: G12, G14, H25, O24

Keywords: Stock returns, event study, corporate taxes, trade policy, corporate interest payments, post-news drift, election surprise

Alexander F Wagner - alexander.wagner@bf.uzh.ch  
*Swiss Finance Institute, University of Zurich; ECGI and CEPR*

Richard Zeckhauser - richard\_zeckhauser@harvard.edu  
*Harvard University, NBER*

Alexandre Ziegler - alexandre.ziegler@bf.uzh.ch  
*University of Zurich*

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Trump, Taxes and Trade\***

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Alexander F. Wagner<sup>1</sup>

Richard J. Zeckhauser<sup>2</sup>

Alexandre Ziegler<sup>3</sup>

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<sup>1</sup> Swiss Finance Institute -- University of Zurich, CEPR, and ECGI. Address: University of Zurich, Department of Banking and Finance, Plattenstrasse 14, CH-8032 Zurich, Switzerland. Email: [alexander.wagner@bf.uzh.ch](mailto:alexander.wagner@bf.uzh.ch).

<sup>2</sup> Harvard University and NBER. Address: Harvard Kennedy School, 79 JFK Street, Cambridge, MA 02139, USA. Email: [richard\\_zeckhauser@harvard.edu](mailto:richard_zeckhauser@harvard.edu).

<sup>3</sup> University of Zurich. Address: University of Zurich, Department of Banking and Finance, Plattenstrasse 14, CH-8032 Zurich, Switzerland. Email: [alexandre.ziegler@bf.uzh.ch](mailto:alexandre.ziegler@bf.uzh.ch).

# 1 Introduction

The election of Donald J. Trump as the 45<sup>th</sup> President of the United States of America on November 8, 2016 surprised most observers. The election's unexpected outcome<sup>1</sup> combined with the wide policy differences between the two candidates led to substantial reactions on financial markets. Large price moves were recorded across asset classes, including stocks, bonds, and exchange rates.

This paper focuses on the response of stock prices to the election in the short- and in the longer run. Assessing the relative winners and losers among companies from the election is interesting, given the sizable differences in the policies the two candidates favored in several economically important areas. One major difference, a prime focus of this paper, lay in expected corporate tax policy changes. While dividend taxes have changed frequently, leading to a large literature on the effects of dividend taxes on stock prices,<sup>2</sup> the last major US federal corporate tax reform dates back to 1986. Thus, although corporate finance theory suggests a first-order effect of corporate taxes on firm value, it has not been possible recently to study the actual pricing of federal tax changes. The 2016 Presidential election provides a unique opportunity to conduct such an analysis because it is rare in developed economies to have the combination of such a surprising outcome and such a difference in tax policies between the candidates.<sup>3</sup> We take advantage of these two characteristics of the event to investigate first the impact of taxes on firm value, and second the efficiency of stock price responses to potentially dramatic changes in both the corporate tax rate and other important features of the tax system.

Many policies, and in particular tax policies, require Congressional approval. Thus, rather than Trump's election per se, it is probably the fact that Republicans controlled both the Presidency and Congress after the election that led investors to expect substantial corporate tax reform to be much more likely than under alternative election outcomes. Either a Clinton presidency and/or a Democratic majority in the Senate would probably have produced gridlock, similar to the 2010-2016 period, making major policy changes unlikely. Nevertheless, it is

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<sup>1</sup> On the morning of Election Day, Trump's chances were 17% on Betfair and 28% on 538Silver.

<sup>2</sup> See Graham (2003) and Hanlon and Heitzman (2010) for reviews.

<sup>3</sup> There is a large general literature on the effect of elections on financial markets. For example, Niederhoffer, Gibbs, and Bullock (1970) consider Dow Jones Industrial Average responses to elections and nominating conventions. Moreover, a substantial literature studies the stock market development during Democratic and Republican administrations over the longer run. For example, Santa-Clara and Valkanov (2003) document a "presidential premium" (especially for large-cap stocks) during Democratic presidencies. Knight (2007) studies stock prices of 70 politically sensitive firms and election odds in a prediction market in the run-up to the Bush/Gore election of 2000.

important to keep in mind that there were two Republican corporate tax plans going into the election – one from the Trump campaign, and one from the House Republicans – and that they differed on a number of dimensions. While the tax reform that will ultimately be implemented, if any, will undoubtedly differ significantly from both plans, these two plans constitute the preponderance of information on possible tax reform options that was available to investors at the time of the election and thereafter. The one-page description of the Administration’s intended plan on April 26, 2017 (The White House 2017) provided an update. That intended plan incorporated important elements from both the Trump-campaign plan and the House Republicans’ plan. It is therefore useful to summarize those plans’ main elements to guide the analysis conducted in this paper.

Among the noteworthy elements of Trump’s campaign plan (Trump 2016) are: (i) a reduction in the statutory corporate income tax rate to 15% from the current 35%; (ii) a one-time deemed repatriation of corporate cash held overseas at a 10% tax rate, followed by an end to the deferral of taxes on corporate income earned abroad (with the current combination of worldwide taxation and foreign tax credits being maintained);<sup>4</sup> and (iii) an election available to firms engaged in manufacturing in the U.S. to immediately expense (rather than depreciate) capital investment. However, firms that elected expensing would not be allowed to deduct interest expenses.

The House Republicans’ tax plan (Republicans 2016) contained the following elements: (i) a reduction in the statutory corporate income tax rate to 20%; (ii) immediate expensing of business investments in both tangible and intangible assets (with the exclusion of land); (iii) the elimination of deductibility of net interest expense (although interest expense would be deductible against interest income); (iv) the addition of an interest factor to net operating loss (NOL) carryforward balances that compensates for inflation and a real return on capital, associated with a removal of NOL carrybacks, and the introduction of an annual limitation on NOL utilization equal to 90 percent of pre-NOL taxable income; (v) the introduction of border

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<sup>4</sup> Under the current tax regime, firms are taxed on worldwide income but that tax can (with a few exceptions) be deferred until the foreign subsidiaries distribute the monies back to their US parent. When repatriating foreign profits, firms get a credit for the foreign taxes paid on that income. The end of deferral was mentioned in the original version of the Trump campaign tax plan (Trump 2015) but not discussed in his revised plan (Trump 2016); however, since the revised plan did not mention a switch to territorial taxation, it appears to be reasonable to assume that the worldwide taxation/FTC system would be maintained.

adjustments that exempt exports and tax imports; (vi) a switch to a territorial taxation system;<sup>5</sup> and (vii) the taxation of accumulated foreign earnings at a rate of 8.75 percent if held in cash or cash equivalents and at 3.5 percent otherwise (with companies able to pay the resulting tax liability over an eight-year period).

Thus, the two corporate tax plans agree on three critical elements: dramatic reduction in the federal statutory rate from its current level of 35%, the expensing of capital expenditures with a limitation on interest expense deductibility, and an announced intention to tax accumulated foreign earnings. However, the plans differ on the issues of border adjustment, territorial versus worldwide taxation, and NOL rules (which the Trump plan did not address). Importantly, some aspects of both plans affect multinationals differently from purely domestic firms. Furthermore, while Trump's plan did not include a border adjustment tax, he had repeatedly promoted introducing or increasing tariffs during the campaign, and hinted at other measures to protect American industry. Whether a border adjustment tax constitutes a fundamentally different approach to corporate taxation or a tariff is subject to debate. However one views this issue, a central fact remains: trade and tax policy are closely intertwined and a differential impact of the election on purely domestic firms and multinationals is to be expected. While we document this differential impact, we are agnostic as to what extent it is driven by tax policy or trade policy.

Guided by the provisions of these plans, we investigate the differential performance of Russell 3000 stocks along a number of tax-related dimensions to determine which factors produced relative winners and relative losers among companies during the stock market's sharp upward movement in the days and indeed the months after the election. These results shed some light on the effect of expectations about tax policy on individual firms. In addition to documenting what factors affected stock returns, we investigate the speed with which markets processed information related to the different dimensions. Studying the speed of incorporation of these expectations into market prices is particularly interesting in the light of the market upheaval right after the election results became known.<sup>6</sup>

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<sup>5</sup> Under a territorial taxation system, dividends received from foreign subsidiaries are exempted from US taxation.

<sup>6</sup> While the changes of prices of some assets were consistent with what had been forecast if Trump were to win (e.g., the Mexican Peso, Latin American and Pacific Rim stock markets), others moved in the opposite direction (e.g., US stocks and Treasuries). This occurred even though the forecasts had a strong empirical foundation. For instance, in a study of asset price moves during the first Presidential debate on September 26, 2016, Wolfers and Zitzewitz (2016) had found a strong positive relationship between the odds of Clinton winning on Betfair and the returns on all major US equity index futures and a negative relationship for Treasury futures. While stock index futures fell sharply on election night as the outcome of the election became known, stock markets finished up on the day following the

We find strong evidence that expectations of a major corporate tax cut substantially impacted the cross-section of stock returns. Specifically, firms with high effective tax rates (both cash ETR and GAAP ETR)<sup>7</sup> and large deferred tax liabilities benefited, while those with deferred tax assets resulting from net operating loss carryforwards lost. The stock market's reactions through May 2017 also imply that expectations about the effects of the incoming administration's anticipated policies for internationally-oriented firms were negative, perhaps reflecting fears of retaliatory tariffs or trade barriers from other nations, perhaps reflecting expectations of an unfavorable tax treatment for foreign earnings. Investors also downgraded companies with high leverage and high interest expenses. By contrast, the level of capital expenditures did not affect the cross-section of stock returns, suggesting that investors thus far think that expensing capital investments is either unlikely to be implemented, or of secondary consequence.

All these findings hold whether data is used in any of three traditional forms: raw returns, returns adjusting for market moves,<sup>8</sup> and returns adjusting for the Fama-French size and value factors. After controlling for size and value, corporate taxes explain somewhat less of abnormal returns. As we show, this is the case because high-tax firms load more on these factors.

Interestingly, markets digested information on these various aspects at varying speeds. To study the speed of price adjustment, we introduce the price contribution methodology commonly used in the market microstructure literature to the empirical corporate finance literature. Specifically, using daily cross-sectional regressions, we quantify the additional price impact of the different variables on each of the first ten trading days after the election. In that time window, no material new information regarding upcoming policies became known, making this period an ideal setting to study the speed at which markets processed publicly available information. Of all the variables considered, deferred tax liabilities affected returns fastest in terms of the first-day price impact – 80% of their price impact occurred on the first day. Next fastest were deferred tax assets from NOL carryforwards. Interestingly, while net deferred tax liabilities (whose effect is

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election, and rallied strongly during the rest of the year and beyond. Treasuries rose sharply on election night but then declined significantly until year-end.

<sup>7</sup> The cash ETR is the ratio of cash taxes paid (available as a separate disclosure at the bottom of the statement of cash flows) to pretax income. The GAAP ETR is the ratio of total tax expense to pretax income and is disclosed in the notes to firms' financial statements. See Hanlon and Heitzman (2010) for a detailed description of these measures and a discussion of their respective advantages.

<sup>8</sup> Since the stock market was up so dramatically, many relative losers actually gained in price, but not nearly so much as relative winners.

difficult to assess for reasons that we discuss in greater detail below) were slowest. The cash ETR affected returns to a greater extent than the GAAP ETR. The negative impact of expected policy changes on high-leverage firms, firms with large interest expenses, and internationally-oriented firms also required several days to get reflected in prices; the one-day response was only about 30% of the ten-day response. Thus, like most of the literature on price responses, we find evidence of delayed incorporation of public information into prices.

While this price contribution analysis reveals how long it took prices to reach their ten-day response, it does not measure the speed at which price uncertainty declined. To assess that speed, we conduct an additional analysis for variances rather than for returns. Again, we find sizable differences in the speeds at which prices along the different dimensions converged towards their ten-day levels. Deferred tax liabilities and deferred tax assets from NOL carryforwards converged most swiftly; net deferred tax liabilities converged the slowest. ETRs, leverage, interest expense, and foreign exposure closed in at an intermediate pace. The cash ETR affected returns more quickly than the more complex GAAP ETR.

This analysis presents intriguing evidence of the efficiency with which the market responded, in particular differences in efficiency across dimensions. To demonstrate those differences required a methodological innovation. To our knowledge, a price contribution analysis, such as ours, has not been done for coefficients from a cross-section of stock price reactions. This method has the potential to be employed in a range of other settings.<sup>9</sup>

Looking at the whole period from November 9 to the end of April, we find that high-tax firms outperformed (underperformed) low-tax firms on days when media coverage of tax reform was high (low). This is illustrated in the stock price reaction to some salient tax-relevant events (such as the announcement of the tax reform on April 26), but also by the fact that taxes played no role in explaining stock price reactions to some other salient non-tax-relevant events (such as the imposition of a travel ban to the US from a group of countries). In a separate section, we address a cluster of consequential happenings beyond the 100-day mark. In mid May 2017, in the wake of the firing of FBI Director Comey, President Trump experienced a slew of adverse news stories, which led to a sharp increase in the probability of impeachment and a drop in the

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<sup>9</sup> When examining the speed of pricing of a piece of news pertaining to a company, the corporate finance literature typically checks whether the drift over different horizons after some initial reaction can be explained by that variable, but does not differentiate between return and variance contribution, and does not compare the speed with which different pieces of news (or different exposures of firms to a given piece of news) get impounded into prices.

probability of a tax cut as indicated by prices on political betting markets. All major US equity indices plunged on May 17. While not nearly as dramatic an event as the surprise election, we find that the market interpreted these troubles as a signal of a less likely, delayed and/or smaller tax cut, with high-tax firms strongly underperforming low-tax firms.

Finally, we show that on days when high-tax firms outperformed (underperformed) low-tax firms the market tended to move upwards (downwards). The effect is sizable, showing the importance of corporate taxes for aggregate stock market valuations and the economy at large. For instance, a one standard deviation higher sensitivity of stock returns to taxes on a given day is associated with 28% of a standard deviation increase in Russell 3000 returns.

In sum, beyond showing that stock prices reacted in the expected direction to Trump's election and his first 100 days, the results also demonstrate the varying speeds with which different aspects regarding corporate taxes and trade issues got reflected into prices. Most broadly, this relatively clean natural experiment confirms that taxes are a very important component of firm value and also of great relevance for the aggregate economy.

## 2 Asset price responses to news

If the market responds optimally to an election outcome, the change in the market price of any asset will reflect both the difference in its expected discounted payoff between the two possible outcomes and the *ex ante* probability that that outcome occurs. The advantage of considering asset price changes is that they capture current expectations; the researcher need not trace all the future changes to cash flows and discount rates separately (Schwert 1981). Formally, let  $P_n$  be the price of asset  $n$  prior to the 2016 election, and let  $P_{n,C}$  and  $P_{n,T}$  denote the expected price of the asset conditional on Clinton and Trump winning, respectively. Let  $\pi_C$  and  $\pi_T = 1 - \pi_C$  be the probabilities of the two outcomes. Ignoring discounting over the short period involved, and assuming that risk aversion is a minor factor,<sup>10</sup> the asset's price before the election is given by

$$P_n = \pi_C P_{n,C} + \pi_T P_{n,T}$$

The price change for the asset given that Trump won is given by

$$\Delta P_n = P_{n,T} - P_n = (P_{n,T} - P_{n,C})(1 - \pi_T)$$

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<sup>10</sup> Risk aversion on overall market movements would, of course, be reflected in beta. Stocks expected to perform better in an unfavorable overall outcome would be priced higher and vice versa.

In words, the price change once the election results become known is the difference in prices between the two outcomes, times the size of the election surprise, which in turn is one minus the ex ante probability of Trump winning. For instance, had Trump's election been certain ex ante, there would not have been a price reaction on the day after the election. Scaling this expression by the initial price, the return on the asset once the election results become known is given by

$$R_n = \frac{P_{n,T} - P_n}{P_n} = \frac{(P_{n,T} - P_{n,C})(1 - \pi_T)}{P_n}.$$

Note that while the election surprise is the same for all assets, individual assets will respond to the election outcome differently, depending on the sign and magnitude of the spread between  $P_{n,C}$  and  $P_{n,T}$  for those assets. For assets that would have benefitted from a Clinton outcome relative to Trump,  $P_{n,C} > P_{n,T}$ , with the inequality reversed for assets that would be helped by a Trump outcome. To presage some of our findings, stocks reacted very differently to the outcome, holding fixed the overall market reaction. By examining the cross-section of stock returns, we can infer whether the incoming administration's expected policies were viewed as favorable or unfavorable for a particular firm or industry, and can then assess the extent and speed with which markets incorporated differences between the candidates on different policy dimensions into prices.

Two factors make the 2016 Presidential election an ideal setting for such an analysis. First, there was a significant gap between the pre-election probabilities and the election outcome. Clinton was the strong favorite on betting markets, in polls, and on election-modeling websites. For instance, on November 7, the probability of Clinton winning on Betfair was 83%, while on the day of the election, even the FiveThirtyEight forecast, which was the major site that gave Trump the highest probability of winning, put the Clinton odds between 71% and 72%. Second, there were major differences between the policies favored by the two candidates. This combination explains why stock prices responded so strongly.

While the election outcome reduced uncertainty about firms' prospects, substantial uncertainties remained for a number of reasons. First, the elected candidate was expected to backtrack on some pledges he made on the campaign trail, even some made repeatedly, or to change his mind on intended policies or the strength with which he would pursue them. Second, many policies would need Congressional approval. Although the Republicans controlled Congress, their majority in the Senate was merely a slender two, and a number of Republican

senators disliked Trump and/or some of his policies. Thus, he might push policies, but Congress might not approve. Accordingly, the specific design and perceived probabilities of various policies being implemented remained subject to large shifts after the election results were known. Thus, sizable relative asset-price reactions could be expected in the weeks and months that followed. We therefore proceed in three steps: First, we illustrate which factors mattered immediately and for the overall stock return of a company in the first 100 days of Trump's administration. Second, we examine the first 10 days after the election, when arguably little shift in the perception of probabilities of implementation and the content of tax reform took place. This allows a relatively pure analysis of the speed of information processing. Finally, we consider the long run, looking in particular at media attention to tax and trade topics and connecting that attention to daily moves in relative stock prices.

### **3 Data and empirical strategy**

Our empirical strategy regresses abnormal returns (ARs) on firm characteristics. Since markets often need time to digest new information, and further information on the incoming administration's proposed policies became clearer only after the election, we consider different sets of abnormal returns: those on the day after the election, the drift from two days after the election to ten trading days (two business weeks) after the election, the cumulative returns through year-end (with December 30 as the last trading day), and then through the end of two two-month periods, until February 28 and April 28, 2017. These analyses shed light on both the overall reaction and the speed with which the market reacted. We note that the end of April 2017 is a somewhat arbitrary end point, but the oft-cited 100-days-in-office mark (which occurred on the weekend, April 29, 2017) does make for a natural focus to assess the market's responses to the Trump Presidency.

Our sample includes the Russell 3000 constituents as of the day of the election.<sup>11</sup> Together, the index constituents represent roughly 98% of the U.S. equity market capitalization. We exclude 142 companies whose initial stock prices were below US\$5.

We obtain stock prices adjusted for splits and net dividends from Bloomberg. We conduct all of our analyses using two sets of abnormal returns: one set calculated with respect to the

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<sup>11</sup> The Russell 3000 actually had 2'966 members as of November 8, 2016. A number of firms leave the sample over time due to acquisitions (72 cases by April 28, 2017) and bankruptcy (one case in April 2017).

CAPM, and another employing the Fama-French three-factor model. To obtain CAPM-adjusted returns, we first compute each stock's market beta from an OLS regression of daily stock returns in excess of the risk-free rate on the excess returns on the Russell 3000 total return index for the period from September 30, 2015 to September 30, 2016 (estimation window).<sup>12</sup> The risk-free rate is the one-month T-bill rate.<sup>13</sup> We then compute abnormal returns for all days surrounding the November 8, 2016 election as the daily excess return on the stock minus beta times the Russell 3000 excess return. To compute Fama-French-abnormal returns, we obtain daily data for the market excess return, the size and value factor returns, and the riskless rate from Ken French's website. We then estimate each stock's factor betas from an OLS regression of its excess return on the market, size, and value factors over the estimation window. Finally, we obtain each stock's abnormal returns as its excess returns minus the sum of its factor exposures times the factor returns. Throughout the paper, all returns are reported in percentage points.<sup>14</sup>

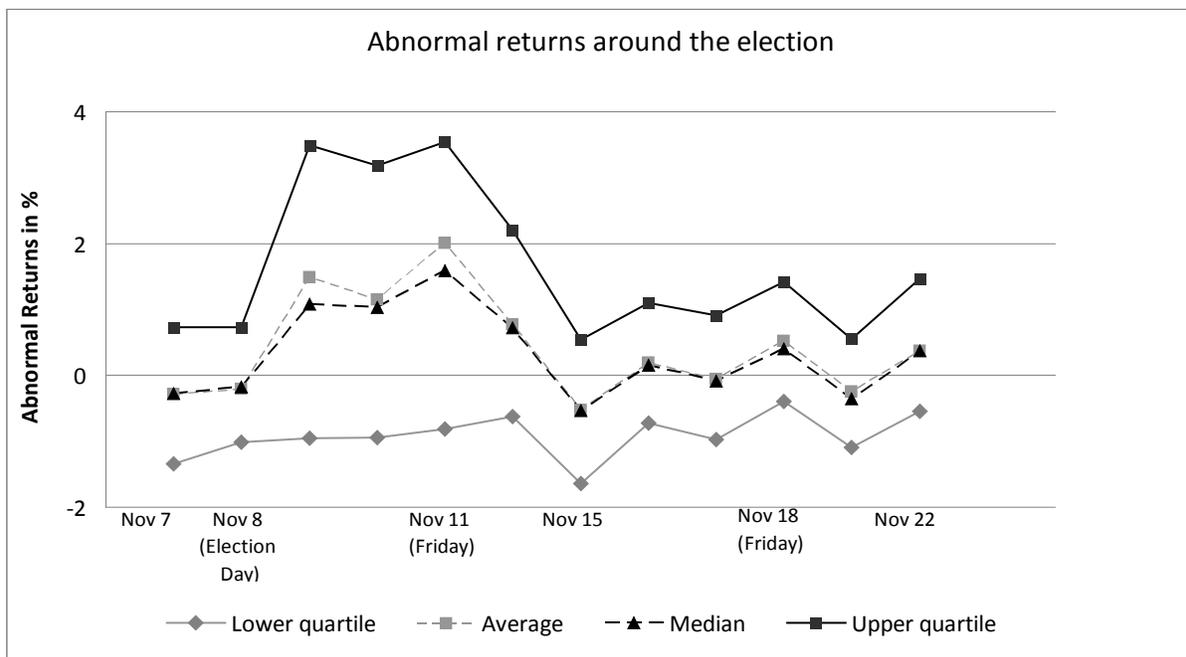
Figure 1 plots some quantiles of the distributions of CAPM-adjusted returns around the election. It indicates substantial variability in the way different firms' stock prices reacted. It is noteworthy (though hardly surprising) that the spreads of the abnormal returns after the election greatly exceed those before. Interestingly, the spread in abnormal returns remained elevated for about four trading days after the election. By November 15, however, that spread had fallen back to its pre-election level. This suggests that the markets needed about four trading days to digest the information associated with the election outcome. We will return to this issue when we examine market efficiency in Section 5.

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<sup>12</sup> Data are available for the entire estimation window for 2,842 out of the 2,966 firms. The 124 other firms have a short return history, mostly because they result from spin-offs and met the index inclusion criteria soon after their first trade date. An example is Hewlett Packard Enterprise Company, which was spun off from HP Inc. on 11/02/2015 and entered the index on that same date. Beta for 117 of these firms is estimated using returns from the date the firm was first traded to September 30, 2016. The return history for the remaining seven firms begins after September 30, 2016, so no beta estimates and no abnormal returns are computed for them.

<sup>13</sup> The results are virtually identical if we use the returns on the Russell 3000 price index instead of those on the total return index and/or the Fed funds rate instead of the T-bill rate.

<sup>14</sup> In any empirical analysis, there is the potential that extreme values – possibly due to transcription errors – distort results. Hence, we conduct additional analyses in Section 4.5 with abnormal returns winsorized or trimmed at the 1% and 99% levels. The results prove virtually the same, though statistical significance is often greater.



**Figure 1: Abnormal stock returns around the election**

This figure shows the average, median, and quartiles of CAPM-adjusted returns the day before the election, the day of the election, and the 10 trading days after the election

We obtain explanatory variables mostly from Compustat Capital IQ, and use the most current accounting data for all companies. For most companies, this means the December 31, 2015 data. However, several companies have fiscal years that end in other months. Thus, we have 723 companies for which calendar year 2016 data are included.<sup>15</sup> The cash effective tax rate (cash ETR) is computed as the percent cash taxes paid (adjusted for special items) relative to current year pretax income.<sup>16</sup>

When assessing the impact of taxes on the value of a stock, what matters to investors is the amount in taxes that a company will be paying over several future years. Thus, one question that arises in the context of our analysis is whether to use the ETR in the year just completed, or an average rate computed over several years as the explanatory variable. Dyreng, Hanlon, and Maydew (2008) document that effective tax rates vary substantially over time, and that one-year

<sup>15</sup> Where Compustat data are missing for the most recent year, we replace them with prior-year data. Even among the companies with December 31 as fiscal year end, in mid-February 2017 (the time of download of all public company financials from Compustat) there were already a few companies in Compustat with year-end 2016 data. It is in principle conceivable that they adjusted their accounting after the election, but a robustness check reveals that using year-end 2015 data yields similar results.

<sup>16</sup> As in Dyreng, Hanlon, Maydew, and Thornock (2017), when using this variable, we restrict the sample to those firms with positive pre-tax income (all but 659 companies) as well as a tax rate below 100% (all but 39 companies).

cash ETRs are not very good predictors of long-run ETRs. Following their findings, we investigate whether one-year or longer-term past ETRs are better able to predict future cash ETRs. While future ETRs are indeed difficult to predict, we find that past one-year ETRs predict future one-year ETRs better than do past ten-year ETRs (the average of a firm's total cash taxes paid over a ten-year period, divided by the sum of its total pretax income (excluding the effects of special items) over the same ten-year period). Specifically, in data from 1986 to 2016, regressing next year's one-year ETR on the current one-year ETR (ten-year ETR) yields regression coefficients of around 0.3 (0.2) and  $R^2$  values of about 20% (10%), depending on the exact implementation. Therefore, we primarily use one-year ETRs in our analysis. Our main results also hold if the ten-year ETRs rather than one-year ETRs are employed as explanatory variables, though they are somewhat weaker for the longer-term return regressions.

As an alternative proxy for the tax rate, we use the disclosed effective tax rate (GAAP ETR), which uses tax expenses, instead of cash taxes paid. This number is collected from the tax footnotes of 10-K statements by Audit Analytics. Market value of equity (MVE), deferred tax assets from net operating loss carryforwards (NOL DTA), deferred tax liabilities (DTL) and net DTL are from Bloomberg.<sup>17, 18</sup>

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<sup>17</sup> Compustat reports NOL carryforward balances in the field TLCF. However, prior literature has expressed concerns about the quality of Compustat's NOL data (Mills, Newberry and Novack 2003). Our inspection of the data has revealed a few significant errors (amounts being off by a factor of 1000). Moreover, cross-checking a small sample of data points by hand with 10-Ks reveals that Compustat includes tax loss carryforwards in foreign jurisdictions. The value of those components of tax loss carryforwards would not be directly affected by a US tax cut. However, these carryforwards may proxy for the degree of non-US activities of the company.

<sup>18</sup> Deferred tax assets include several components besides DTAs from NOL carryforwards, such as foreign tax credit and R&D tax credit balances. Net deferred tax liabilities, which are defined as deferred tax liabilities minus deferred tax assets, therefore generally differ from DTL minus NOL DTA.

**Table 1: Descriptive statistics**

Our sample includes the Russell 3000 constituents as of November 8, 2016 with stock prices above US\$5. Panel A summarizes returns data. Throughout the paper, all returns are reported in percentage points. AR indicates abnormal return, and CAR indicates cumulative abnormal return. CAPM-adjusted returns for all days from November 9, 2016 to April 28, 2017 are computed as the daily excess return on the stock minus beta times the Russell 3000 excess return, where beta is estimated on daily excess returns from September 30, 2015 to September 30, 2016. The risk-free rate is the 1-month T-bill rate. Fama-French-(FF-)adjusted returns are computed as the excess return on the stock minus the sum of its factor exposures times the factor returns, where the factor exposures are computed on daily market excess return, size, and value factor returns (obtained from Ken French's website) from September 30, 2015 to September 30, 2016. Panel B summarizes firm characteristics. The following variables are taken from Compustat or are computed based on Compustat data (Compustat mnemonics in capitals in parentheses): Total Assets (AT), Percent revenue growth ( $100 \times (\text{SALE} - \text{SALE}_{t-1}) / \text{SALE}_{t-1}$ ), Profitability ( $100 \times \text{pretax income} / \text{assets} = 100 \times (\text{PI} / \text{AT})$ ), Cash taxes paid in percent of current year pretax income (Cash ETR =  $100 \times (\text{TXPD} / \text{PI})$ ), Percent profits from foreign activities ( $100 \times \text{PIFO} / \text{PI}$ ), Foreign operations in percent of assets ( $100 \times \text{abs}(\text{PIFO}) / \text{AT}$ ), Leverage ( $(\text{DLTT} + \text{DLC}) / \text{AT}$ ), Interest expenses in percent of assets ( $100 \times \text{XINT} / \text{AT}$ ), Capital expenditures in percent of assets ( $100 \times \text{CAPX} / \text{AT}$ ). The sources of additional variables are as follows: The GAAP effective tax rate in percent and Indefinitely reinvested foreign earnings (IRFE) (which we divide by market value of equity) are obtained from Audit Analytics. Market value of equity (MVE), Deferred Tax Assets from net operating loss carryforwards (NOL DTA, which we divide by MVE), and Deferred Tax Liabilities (DTL) as well as Net DTL (both of which we also divide by MVE) are from Bloomberg. Percent revenue from foreign sources is from Bloomberg, supplemented by data computed from Compustat segments data. Percent foreign assets is computed from Compustat segments data.

Panel A: Returns	Obs	Min	P25	Mean	Median	P75	Max	Std. Dev.
Raw return on Nov 9	2785	-48.94	0.39	2.94	2.52	4.98	43.13	4.87
CAPM-adjusted AR on Nov 9	2778	-50.18	-0.97	1.42	1.05	3.43	42.10	4.69
Fama-French-adjusted AR on Nov 9	2778	-53.03	-2.37	-0.20	-0.42	1.65	42.07	4.65
Cumulative return from Nov 9 to Dec 30	2768	-85.18	2.74	12.60	10.87	21.68	424.17	17.99
CAR (CAPM-adjusted) from Nov 9 to Dec 30	2761	-86.24	-3.33	5.47	4.20	13.54	423.77	17.04
CAR (FF-adjusted) from Nov 9 to Dec 30	2761	-82.74	-8.28	-0.09	0.06	7.88	352.65	16.84
Cumulative return from Nov 9 to Feb 28	2746	-89.02	3.69	15.06	13.36	24.36	712.81	24.76
CAR (CAPM-adjusted) from Nov 9 to Feb 28	2739	-90.77	-8.49	1.12	0.75	9.74	711.33	22.54
CAR (FF-adjusted) from Nov 9 to Feb 28	2739	-88.99	-10.67	-0.79	-0.55	7.84	655.73	22.12
Cumulative return from Nov 9 to April 28	2717	-90.89	3.87	16.38	14.94	27.41	446.25	26.56
CAR (CAPM-adjusted) from Nov 9 to April 28	2710	-92.49	-9.88	1.09	0.77	11.55	322.43	22.74
CAR (FF-adjusted) from Nov 9 to April 28	2710	-92.33	-12.14	-1.47	-0.93	9.40	304.16	22.30
Loading on market excess returns (Beta)	2778	-2.57	0.76	1.02	0.98	1.23	4.28	0.42
Loading on size factor returns	2778	-2.98	0.24	0.80	0.68	1.21	14.38	0.85
Loading on value factor returns	2778	-11.36	-0.24	0.15	0.13	0.52	5.75	0.88

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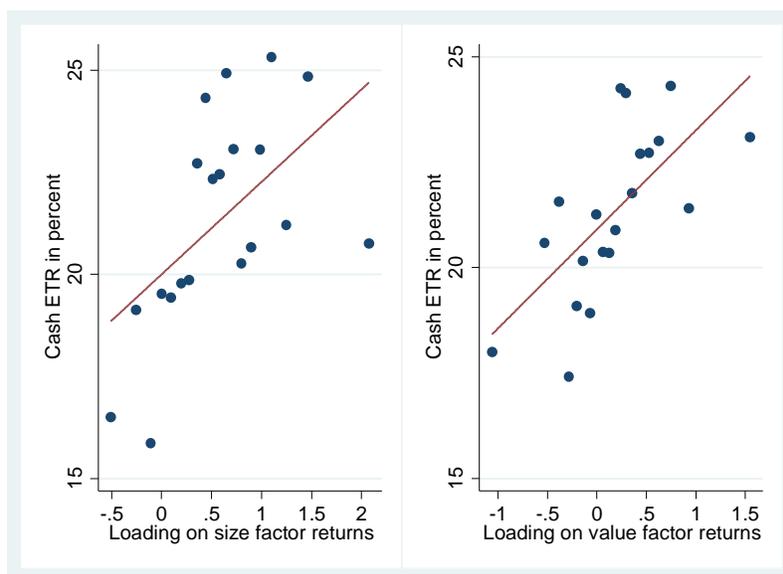
Panel B: Firm characteristics	Obs	Min	P25	Mean	Median	P75	Max	Std. Dev.
Market value of equity (US\$ millions)	2767	35	573	8739	1654	4971	601439	30916
Percent revenue growth	2719	-100.00	-3.10	17.90	4.59	15.86	3380.13	135.39
Profitability	2782	-174.82	0.33	1.58	3.32	8.75	133.64	18.13
Cash effective tax rate (ETR) in percent	1977	0.00	8.85	21.29	22.09	31.49	69.06	14.24
GAAP effective tax rate (ETR) in percent	2417	0.00	14.00	25.75	30.00	36.00	80.00	15.31
NOL DTA in percent of MVE	1344	0.00	0.33	4.51	1.37	4.60	58.11	7.91
DTL in percent of MVE	1515	0.00	0.48	6.18	2.30	7.36	54.10	9.26
Net DTL in percent of MVE	2238	-36.99	-1.03	-0.44	0.00	1.39	25.60	6.69
Percent revenue from foreign sources	2086	0.00	0.00	24.75	14.87	43.02	100.00	28.10
Percent profits from foreign activities	1066	0.00	7.34	33.91	24.52	56.35	100.00	30.15
Foreign operations in percent of assets	1492	0.00	0.43	3.00	1.63	4.36	20.80	3.61
Percent foreign assets	815	0.00	8.66	32.04	25.52	46.58	100.00	28.24
IRFE in percent of MVE	1007	0.01	1.82	14.11	8.16	19.89	97.96	17.00
Leverage	2758	0.00	0.06	0.25	0.22	0.39	0.94	0.22
Interest expense in percent of assets	2321	0.00	0.34	1.33	1.08	1.97	6.93	1.24
Capital expenditures in percent of assets	2495	0.00	0.77	3.73	2.33	5.07	27.48	4.36

We obtain the percentage of firm revenue from foreign sources from Bloomberg, and we supplement these data with information from Compustat geographical segment data. Percent foreign profits is from Compustat. As a proxy for production costs incurred abroad, we compute the percentage of non-US assets in total assets from Compustat geographical segment data. Some data on foreign components was unavailable for some firms. From Audit Analytics, we obtain data for indefinitely reinvested foreign earnings<sup>19</sup> (also known as “cash stashed abroad”) as of May 2016, and we divide that number by market value of equity to obtain our proxy for cash held abroad. All other variables are standard. Table 1 provides the details of the computations. Especially for smaller firms, some of the explanatory variables (in particular ratios) take on extreme values. We truncate the tax rates, the computed foreign exposure ratios, and the deferred tax ratios at the 1% and 99% levels.

Before embarking on the empirical analysis, it is useful to reflect on the relative advantages of using raw returns, CAPM-adjusted returns, or Fama-French-adjusted returns in our setting.

<sup>19</sup> Recall that under the current US tax system, the taxation of foreign earnings is deferred until these earnings are repatriated back to the US. Accounting rules require the US parent to record a deferred tax expense and a corresponding deferred tax liability reflecting the incremental US tax (i.e., net of the credit for foreign taxes) that will be due on these earnings upon repatriation. An exception to this rule applies to earnings that the company does not intend to bring back to the US. In this case, Accounting Standards Codification Section 740-10-25 provides that the company must designate the earnings as indefinitely reinvested for accounting purposes, and no deferred tax liability (nor deferred tax expense) is recorded. The result is a lower tax expense, lower GAAP ETR, and higher after-tax income than if the designation were not made. While not all unremitted foreign earnings are designated as indefinitely reinvested, Graham, Hanlon, and Shevlin (2011) surveyed tax executives and found that more than half of the firms in their sample designate all of their unremitted earnings as indefinitely reinvested, and that three-fourths of all accumulated foreign earnings are declared indefinitely reinvested.

Conceptually, the purpose of using adjusted returns would be to eliminate the impact of factors that are unrelated to the effects being investigated. Small stocks outperformed large stocks and value stocks outperformed growth stocks during our sample period. However, this outperformance could itself be driven by the new administration’s expected policies. As can be seen in Figure 2, firms with high loadings on the size and value factors have higher ETRs on average. This suggests that in this particular time period, the superior performance of the size and value factors was in part related to expected changes in tax policy.<sup>20</sup>



**Figure 2: Binned scatter plots of loading on size (left panel) and value (right panel) factor returns against cash ETR**

The factor loadings are computed by regressing daily firm excess returns on daily market excess return, size, and value factor returns (obtained from Ken French’s website) from September 30, 2015 to September 30, 2016. The plots control for Fama-French 30 industries fixed effects.

In spite of the evidence in Figure 2, taxes are obviously not the sole driver of the performance of the size and value factors during our sample period; therefore, controlling for size and value is arguably still appropriate. Nevertheless, it is important to keep in mind that to the extent that the size and value returns are themselves driven by expected changes in tax policy, regressions using Fama-French-adjusted returns will tend to understate the impact of

<sup>20</sup> Another way to look into these effects is to run daily cross-sectional regressions of raw returns on the cash ETR (and standard controls). The loadings extracted from these regressions are correlated 0.46 with the size (SMB) factor return, and 0.48 with the value (HML) factor return.

taxes on stock returns. Put differently, we would generally expect our results for tax rates to be stronger when using CAPM-adjusted returns than when using Fama-French-adjusted returns.

Of course, the same kind of reasoning could be applied to assess the appropriateness of controlling for the market return itself – indeed, one of the important messages of this paper is that expectations about changes in tax policy were key drivers of the market’s rise after the election. However, it turns out that while the correlation between the cash ETR and the loadings on size and value is highly statistically significant ( $p < 0.01$ ), the correlation between the cash ETR and market beta is zero and completely insignificant ( $p = 0.77$ ). Hence, using CAPM-adjusted returns will not understate the impact of taxes on stock returns, and sizable differences between the results using raw returns and CAPM-adjusted returns should not be expected. We will document this for our first results and conduct the remainder of the analysis using both CAPM-adjusted and Fama-French-adjusted returns.

#### **4 Tax-related and other determinants of stock return reactions**

This section investigates the cross-section of stock price responses to the election outcome. It examines the impact of various aspects of corporate taxation and related factors. It seeks to determine which factors got reflected in the cross-section of stock returns, both initially (on the day after the election) and in the medium run (through year-end, to the end of February, and up through Trump’s 100<sup>th</sup> day in office). Considering different horizons is important for two reasons. First, investors’ policy expectations surely change over time. Second, markets may need time to digest information. Regarding policy expectation changes, it is worth noting that by the end of April, no actual legislation had been initiated. The lack of actual policy achievements may have negatively affected investor expectations of the likelihood that the originally anticipated policy changes would actually happen. Moreover, casual observation suggests that around the 100<sup>th</sup> day in office, President Trump had much less potential to accomplish the major policy changes he had targeted within a short time horizon. Additionally, it naturally gets harder and harder to explain how policy expectations influence stock returns as the period stretches out -- since changes in company and industry factors also influence such returns. We will see that some tax-related features strongly impacted the cross-section of stock returns and had remarkable explanatory power even for the more distant returns, while for others the effect subsides towards

the end of the sample period. After having established which factors significantly explain stock returns, we then examine, in Section 5, how quickly these factors were incorporated into prices.

#### **4.1 Corporate tax rates**

Although the details of any future tax plan remain hazy, it is clear that President Trump wants to cut corporate taxes significantly below their current 35% level. On April 26, 2017, Treasury Secretary Mnuchin and President Trump reiterated the goal of a 15% corporate tax rate. Given that the Republican majority in Congress, as well as many Democratic legislators, also favor a reduction in the statutory rate, market participants arguably perceived a significant tax cut as likely. Had Hillary Clinton won the election, corporate taxes might well have been trimmed, but not cut nearly to the level that Trump has proposed on many occasions. (President Obama had supported a much more modest cut to 28%.)

Given the surprisingly large expected reduction in corporate taxes due to Trump's election, companies currently paying higher taxes should perform better. This prediction is borne out in the data. Table 2 shows the results of regressions of individual stock returns on the cash ETR and controls. It reports regressions for raw returns (panel A), CAPM-adjusted returns (panel B), and Fama-French-adjusted returns (panel C). The overall results are very similar. Nevertheless, contrasting the outcomes is interesting.

As can be seen in Column (1) of Panel A, the market responded strongly to differences in taxation across firms, and a substantial reaction had already taken place on the first day after the election. Economically, this effect is sizable: In this sample, the standard deviation of the cash ETR is 14.2 percentage points. Therefore, a one standard deviation greater effective tax rate is associated with a 0.47 percentage point ( $14.2 \times 0.033$ ) increase in the raw returns on the day after the election, a bit less than 10% of a standard deviation of the raw returns.

Columns (2) to (4) of Panel A show a strong and highly statistically significant association between the cash ETR and the cumulative returns from November 9, 2016 both through year-end and through the end of April. Contrasting the values of the cash ETR coefficient in the different columns suggests that while the market responded strongly on the first day, there was substantial drift in the weeks and months that followed. Section 5 will elaborate on this theme.

Panel B shows results using CAPM-adjusted returns. A nearly identical picture to Panel A emerges, in line with our observation at the end of Section 3 that since there is no significant

correlation between the cash ETR and market beta, one would not expect sizable differences between the results using raw returns and CAPM-adjusted returns.

Finally, Panel C adjusts for companies' exposure to the size and value factors. Again, the association of the cash ETR and stock returns remains robust, both on the first day and in the weeks and months following the election. Although the coefficients are somewhat smaller (as the findings in Section 3 would suggest), they remain statistically and economically significant. For example, a one standard deviation higher effective tax rate is associated with around 6% of a standard deviation higher Fama-French-adjusted returns until the end of April 2017, or 143 basis points. The top row of Figure 3 illustrates these results in binned scatter plots.

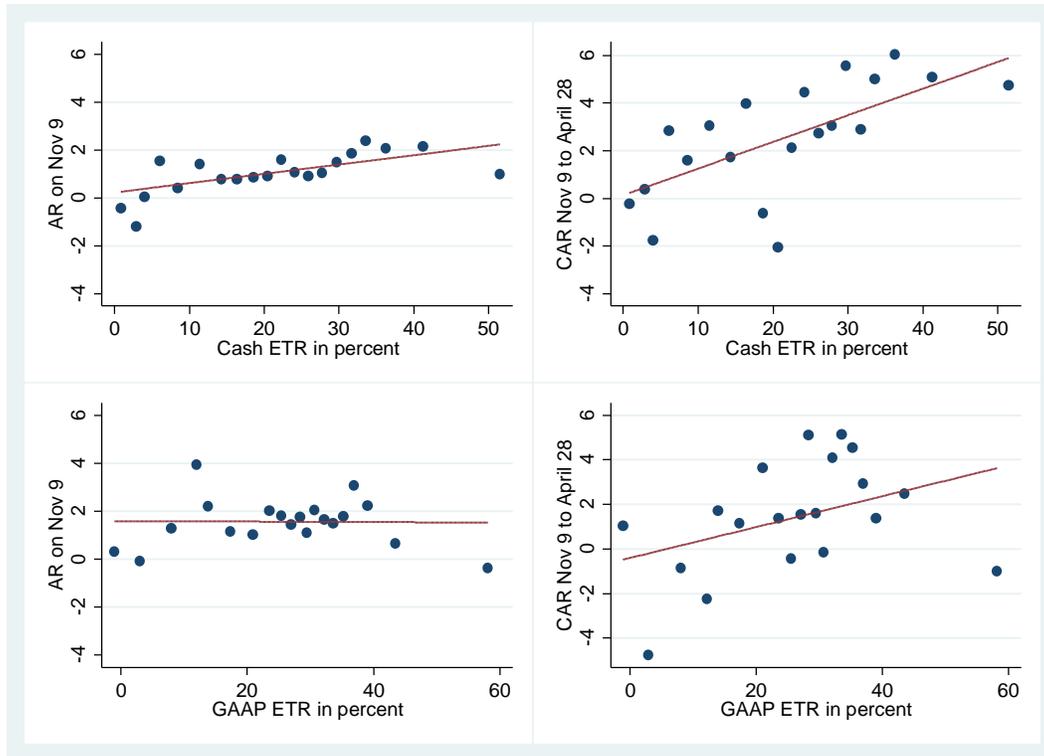
Turning to the control variables, Table 2 also reveals that stocks of smaller firms performed better after the election. This is most clearly visible in the coefficients on size in the raw returns and the CAPM-adjusted returns regressions. Market cap is less significant in the Fama-French-adjusted returns, though even this adjustment does not appear to fully control for size effects. Profitability itself does not explain abnormal returns. It is somewhat puzzling that faster-growing firms (those with higher revenue growth) have reacted less positively, even after controlling for industry. One might have thought that investors would see an improved future for these companies given the Trump victory. Conceivably, investors are worried that these firms, which rely on a stable environment to achieve their long-term growth plans, will find themselves in a less predictable economic and regulatory setting. We do not, however, have a compelling explanation for this finding. The effect subsides and indeed vanishes already by the end of the year for Fama-French adjusted returns.

The industry dummies are not shown to preserve space, but we briefly summarize the results here (more details are available on request). Even after controlling for the rally in the broad market, until year-end several low-beta industries (beer, tobacco, food products, and utilities) were among the losers, while cyclical industries tended to be winners. Presumably, expectations of higher growth initially induced investors to rotate from low-risk to high-beta industries. However, the cumulative abnormal returns for several high-beta industries have reversed since the end of the year. For example, printing, steel, transportation, textiles, and precious metals, which did well through year-end, underperformed the market since then. Thus, expectations regarding economic growth appear to have somewhat softened.

**Table 2: Cash effective tax rates**

This table presents OLS regressions of individual stock returns on firm characteristics and Fama-French 30 industry fixed effects. Panel A uses raw returns, Panel B uses CAPM-adjusted returns, and Panel C uses Fama-French-adjusted returns. The time periods covered are November 9, 2016 (column 1), from November 9, 2016 to December 30, 2016 (column 2), from November 9, 2016 to February 28, 2017 (column 3), and from November 9, 2016 to April 28, 2017 (column 4). The sample includes Russell 3000 firms. T-statistics based on robust standard errors are shown in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.

	(1)	(2)	(3)	(4)
Time period:	Nov 9, 2016	Nov 9 - Dec 30	Nov 9 - Feb 28	Nov 9 - April 28
Panel A: Raw returns				
Cash ETR	0.033*** (3.70)	0.105*** (4.12)	0.092*** (2.83)	0.110*** (2.88)
Ln(Market value of equity)	-0.551*** (-10.48)	-3.246*** (-18.26)	-0.961*** (-4.20)	-1.347*** (-4.67)
Percent revenue growth	-0.011*** (-2.65)	-0.044*** (-4.01)	-0.036*** (-2.73)	-0.010 (-0.55)
Profitability	-0.009 (-0.83)	-0.066* (-1.90)	-0.109** (-2.57)	-0.056 (-0.91)
Constant	6.206*** (12.93)	37.083*** (23.26)	21.829*** (9.87)	25.292*** (9.13)
Observations	1,966	1,960	1,948	1,924
R-squared	0.150	0.307	0.134	0.086
Industry FE	Yes	Yes	Yes	Yes
Panel B: CAPM-adjusted returns				
Cash ETR	0.033*** (3.80)	0.103*** (4.36)	0.088*** (3.15)	0.106*** (3.16)
Ln(Market value of equity)	-0.552*** (-10.80)	-3.106*** (-18.55)	-0.940*** (-4.61)	-1.303*** (-5.03)
Percent revenue growth	-0.012*** (-2.64)	-0.042*** (-3.96)	-0.034** (-2.54)	-0.011 (-0.66)
Profitability	-0.005 (-0.50)	-0.045 (-1.31)	-0.063 (-1.47)	-0.013 (-0.21)
Constant	4.791*** (10.19)	29.263*** (19.53)	8.494*** (4.36)	10.549*** (4.30)
Observations	1,966	1,960	1,948	1,924
R-squared	0.145	0.311	0.134	0.086
Industry FE	Yes	Yes	Yes	Yes
Panel C: Fama-French-adjusted returns				
Cash ETR	0.027*** (3.09)	0.050** (2.26)	0.063** (2.32)	0.101*** (3.05)
Ln(Market value of equity)	-0.154*** (-3.04)	-1.520*** (-8.81)	-0.400** (-1.97)	-0.677*** (-2.63)
Percent revenue growth	-0.009** (-2.06)	-0.003 (-0.24)	-0.015 (-1.14)	-0.013 (-0.74)
Profitability	0.014 (1.37)	0.085* (1.88)	-0.000 (-0.00)	0.003 (0.05)
Constant	0.383 (0.80)	11.786*** (7.57)	2.384 (1.25)	3.761 (1.56)
Observations	1,966	1,960	1,948	1,924
R-squared	0.074	0.154	0.104	0.082
Industry FE	Yes	Yes	Yes	Yes



**Figure 3: Binned scatter plots of cash ETR (top two panels) and GAAP ETR (bottom two panels) against CAPM-adjusted abnormal returns on November 9, 2016 (left panels) and CARs from November 9 to April 28, 2017 (right panels) (controlling for Fama-French 30 industries fixed effects)**

Table 3 uses the GAAP ETR instead of the cash ETR. The GAAP ETR, reported in the tax footnotes to companies' 10-K statements, reflects the total tax expenses (rather than the cash taxes paid) that a company records. Again, firms bearing a higher tax burden according to this measure responded more positively, both for CAPM-adjusted returns and for Fama-French-adjusted returns. However, as was the case for the cash ETR and as our discussion at the end of Section 3 portends, the results for Fama-French-adjusted returns are somewhat weaker. Interestingly, no significant relationship between the GAAP ETR and abnormal returns is found on the first day after the election, but in the period running into year-end a strong and significant relationship emerges.<sup>21</sup> This suggests that the market needed more time to digest the information reported in the footnotes to 10-K statements than that available from financial statements. This is

<sup>21</sup> The effect weakens somewhat at the beginning of 2017 and subsides by the end of April. As seen in the robustness tests in Section 4.5, when trimming returns, the effect is significant but small on the first day, and remains significant through the end of April, suggesting that outliers help to account for the insignificant results in Table 3.

apparent when contrasting the top and bottom rows in Figure 3, which show the relationship between both ETR measures and abnormal returns using binned scatter plots. Section 5 explores the pace at which different variables got incorporated into prices in more detail.

**Table 3: GAAP effective tax rates**

This table presents OLS regressions of individual stock returns on firm characteristics and Fama-French 30 industry fixed effects. Panel A uses CAPM-adjusted returns, and Panel B uses Fama-French-adjusted returns. The time periods covered are November 9, 2016 (column 1), from November 9, 2016 to December 30, 2016 (column 2), from November 9, 2016 to February 28, 2017 (column 3), and from November 9, 2016 to April 28, 2017 (column 4). All regressions control for the same firm characteristics as in Table 2 (log market cap, percentage revenue growth, profitability) and Fama-French 30 industry fixed effects. The sample includes Russell 3000 firms. T-statistics based on robust standard errors are shown in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.

	(1)	(2)	(3)	(4)
Time period:	Nov 9, 2016	Nov 9 - Dec 30	Nov 9 - Feb 28	Nov 9 - April 28
Panel A:		CAPM-adjusted returns		
GAAP ETR	0.011 (1.48)	0.128*** (6.08)	0.096*** (3.66)	0.030 (0.84)
Observations	2,357	2,343	2,323	2,298
R-squared	0.168	0.254	0.110	0.086
Panel B:		Fama-French adjusted returns		
GAAP ETR	0.007 (0.91)	0.067*** (3.20)	0.059** (2.28)	0.033 (0.93)
Observations	2,357	2,343	2,323	2,298
R-squared	0.101	0.172	0.108	0.099
Both panels:				
Controls	Yes	Yes	Yes	Yes

## 4.2 Deferred tax liabilities and deferred tax assets from net operating loss carryforward balances

Table 4 examines another set of tax-related consequences. On the one hand, firms with substantial deferred tax assets (DTA) arising from net operating loss (NOL) carryforward balances (henceforth NOL DTAs) should underperform, since a tax cut reduces the present value of the expected tax savings that these NOLs will provide, which reduces the value of the DTAs. Note that while the impact of a reduction in the statutory tax rate is clearly negative (in relative terms) for firms with NOL DTAs, the consequences of the NOL-specific provisions in the House Republicans' tax plan are ambiguous: the addition of interest to NOL balances is beneficial,

while the introduction of stricter NOL utilization limits hurts. In any event, one would expect the impact of these additional provisions to be dwarfed by the cut in the statutory rate.

On the other hand, firms with (net) deferred tax liabilities (DTLs) should benefit: Deferred tax liabilities reflect estimates of taxes payable in the future were current tax laws to persist. If future rates are reduced, the present value of these liabilities falls, thereby enhancing firm value. Table 4 shows that the market reacted in line with these predicted effects, although the statistical significance of the results for the cash ETR is weaker than in Table 2, probably because of the smaller number of available observations.

As Panels A and B reveal, the relationship between NOL DTAs and abnormal returns is negative. For CAPM-adjusted returns the effect doesn't reach statistical significance on the first day but is strongly significant by year-end. For Fama-French-adjusted returns, the effect is already significant on the first day. Panels C and D show that (gross) deferred tax liabilities were significantly positively associated with abnormal returns on November 9. For CAPM-adjusted returns, the effect remains significant in the November 9 to year-end period and in the November 9 to February 28 period.

Finally, as can be seen in Panels E and F, net deferred tax liabilities were insignificant on the first day after the election, but reached significance later on. Presumably, the large number of components in net deferred tax liabilities made it harder for market participants to assess their effect on firm value. This is intuitive: net deferred tax liabilities are defined as deferred tax liabilities minus deferred tax assets. While the consequences of a cut in the statutory rate are relatively easy to assess for deferred tax liabilities, deferred tax assets include elements for which the effect of a change in the statutory rate is difficult to assess (for example, tax credit balances would not be affected, but a change in the statutory rate would increase the probability that some of the balances cannot be utilized before the expiration of the admissible carryforward period). Section 5 will investigate differences in the speed of price adjustment among the different variables in detail.

**Table 4: Deferred tax liabilities and NOLs**

This table presents OLS regressions of individual stock returns on firm characteristics and Fama-French 30 industry fixed effects. Panels A and B use deferred tax assets from NOL carryforwards in percent of equity market capitalization (market value of equity, MVE) as the key explanatory variable, Panels C and D use deferred tax liabilities in percent of MVE, and Panels E and F use net deferred tax liabilities in percent of MVE. Panels A, C, and E use CAPM-adjusted returns, while Panels B, D, and F use Fama-French-adjusted returns. The time periods covered are November 9, 2016 (column 1), from November 9, 2016 to December 30, 2016 (column 2), from November 9, 2016 to February 28, 2017 (column 3), and from November 9, 2016 to April 28, 2017 (column 4). All regressions control for the cash ETR and the same firm characteristics as in Table 2. The sample includes Russell 3000 firms. T-statistics based on robust standard errors are shown in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.

	(1)	(2)	(3)	(4)
Time period:	Nov 9, 2016	Nov 9 - Dec 31	Nov 9 - Feb 28	Nov 9 - April 28
Panel A:	CAPM-adjusted returns			
NOL DTA in percent of MVE	-0.075 (-1.59)	-0.155** (-2.13)	-0.089 (-0.72)	-0.267* (-1.89)
Cash ETR	0.019 (1.37)	0.019 (0.59)	0.002 (0.04)	0.003 (0.06)
Observations	921	920	914	900
R-squared	0.152	0.310	0.133	0.095
Panel B:	Fama-French-adjusted returns			
NOL DTA in percent of MVE	-0.108** (-2.13)	-0.325*** (-3.94)	-0.188 (-1.62)	-0.304** (-2.28)
Cash ETR	0.016 (1.16)	0.002 (0.05)	-0.007 (-0.18)	0.003 (0.06)
Observations	921	920	914	900
R-squared	0.096	0.148	0.103	0.094
Panel C:	CAPM-adjusted returns			
DTL in percent of MVE	0.086*** (3.08)	0.176** (2.33)	0.239** (2.48)	0.091 (0.71)
Cash ETR	0.002 (0.10)	0.016 (0.50)	0.007 (0.17)	0.057 (1.08)
Observations	1,099	1,097	1,092	1,079
R-squared	0.163	0.251	0.086	0.077
Panel D:	Fama-French-adjusted returns			
DTL in percent of MVE	0.064** (2.14)	0.040 (0.51)	0.172* (1.83)	0.063 (0.51)
Cash ETR	0.003 (0.17)	0.020 (0.59)	0.009 (0.23)	0.058 (1.11)
Observations	1,099	1,097	1,092	1,079
R-squared	0.068	0.103	0.072	0.074

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Time period:	(1) Nov 9, 2016	(2) Nov 9 - Dec 31	(3) Nov 9 - Feb 28	(4) Nov 9 - April 28
Panel E:	CAPM-adjusted returns			
Net DTL in percent of MVE	-0.003 (-0.14)	0.141*** (2.96)	0.110* (1.85)	0.109 (1.45)
Cash ETR	0.031*** (3.18)	0.101*** (4.12)	0.095*** (3.17)	0.100*** (2.86)
Observations	1,635	1,629	1,620	1,602
R-squared	0.152	0.326	0.163	0.109
Panel F:	Fama-French-adjusted returns			
Net DTL in percent of MVE	0.002 (0.11)	0.116** (2.27)	0.090 (1.49)	0.120 (1.60)
Cash ETR	0.023** (2.30)	0.033 (1.36)	0.062** (2.10)	0.092*** (2.66)
Observations	1,635	1,629	1,620	1,602
R-squared	0.088	0.184	0.129	0.105
All panels				
Constant and controls	Yes	Yes	Yes	Yes

### 4.3 Foreign operations

A number of the policies proposed at one point by President Trump or by Congress would affect internationally-oriented firms differently from purely domestic firms. Some would be favorable to multinationals, while others would be costly to them, which makes theoretical predictions on the likely overall impact difficult. This is best illustrated by the discussion around the taxation of multinationals. Under the current tax regime, firms are taxed on worldwide income but that tax (with the exception of so-called Subpart F income<sup>22</sup>) can be deferred until the foreign subsidiaries distribute the monies back to their US parent. When repatriating foreign profits, firms get a credit for the foreign taxes paid on that income, but typically incur an extra tax cost because the US corporate tax rate exceeds the tax rate in virtually all countries (so that credits brought in with the distribution are usually lower than the incremental US tax before credits). A switch to territorial taxation as proposed in the House Republicans' tax plan (Republicans 2016) would benefit multinationals compared to the current system. By contrast, Trump's tax plan

<sup>22</sup> The Subpart F rules are one of the messiest areas of tax laws and regulations. Under these rules, certain types of income earned by a foreign subsidiary are taxable to the US parent in the year earned even if the foreign corporation does not distribute the income to its shareholder in that year. Broadly speaking, Subpart F income includes investment income such as dividends, interest, rents and royalties; income from the purchase or sale of personal property involving a related person; and income from the performance of services by or on behalf of a related person.

originally proposed sticking to worldwide taxation albeit ending the deferral of taxes on corporate income earned abroad (effectively treating all income as Subpart F income), which would hurt multinationals.<sup>23</sup> In his proposal of April 26, 2017, the President ended up switching to territorial taxation. To the extent that market participants had viewed this development as likely, foreign-oriented firms might have already benefited right after the election, or perhaps starting in the weeks and months after the election as the White House position, though perhaps not widely discussed, started to shift on the matter.

The repatriation of *past* earnings is another much-discussed policy issue at the intersection of foreign operations and taxes. Commentators across the political spectrum have worried about the tendency of US companies to “stash cash abroad”. Such stashing is attractive due to the extra tax cost firms incur when repatriating foreign subsidiaries’ earnings, as discussed above. If a partial tax holiday allowed companies to pay a much lower rate when repatriating foreign earnings, investors might expect companies with cash held abroad to do better. In fact, this expectation is mirrored in the fact that several years ago, Goldman Sachs compiled a thematic basket, GSTHSEAS, containing the 50 companies in the S&P 500 with the largest cash positions held in foreign subsidiaries. Importantly, however, it is not clear how exactly the election would have affected companies with large unremitted foreign earnings. After all, although it was not mentioned in her tax plan, a partial tax holiday on repatriated earnings was also widely expected to occur had Hillary Clinton been elected President. Although Trump advocated a low headline rate of 10%, he proposed taxing accumulated foreign earnings regardless of whether or not they are repatriated (through a so-called deemed repatriation).<sup>24</sup> Accordingly, the market reaction to the election on that count would be driven not so much by expectations of a partial tax holiday as such, but by the perceived difference in the holiday tax rate and the tax base between the two candidates. Trump was likely to favor a lower rate than would Clinton but to be more aggressive on the tax base by using the deemed repatriation construct.

A third area where taxes could affect multinationals differently than domestic firms is through their impact on firms’ competitiveness. The House Republicans’ tax plan (Republicans

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<sup>23</sup> This is true *ceteris paribus*. If the US tax rate were lowered below foreign rates, repatriation would no longer be associated with an extra tax cost.

<sup>24</sup> A different, but related question is what companies would do with the repatriated cash. Despite explicit prohibitions against the use of repatriated cash for repurchases, it appears that this is exactly what companies did use this cash for after the 2004 tax holiday (Dharmapala, Foley and Forbes 2011). Thus, an indirect effect leading to differential stock market reactions to repatriation could be due to differences in firms’ financial constraints.

2016) has been interpreted to help make US companies more competitive abroad. The basic thrust of the plan is that US companies would not pay tax on profits earned on overseas sales anymore. Conversely, products, services and intangibles that are imported would be subject to US tax regardless of where they are produced (“border adjustment”). (See Tax Foundation (2016) for a description of the plan.) The Tax Foundation, however, dismisses the argument that exporters would benefit from the plan. They write: *“Of course, U.S. producers may think of this as a subsidy for exports because they would not be taxed on sales overseas. But if businesses were able to reduce the prices of their goods they sell overseas due to the border adjustment, this would trigger a higher demand for dollars in order to purchase those goods. This higher demand for dollars would increase the value of the dollar relative to foreign currencies and offset any perceived trade advantage granted by the border adjustment.”* Following this view, some market observers have claimed that (expectations of) the plan’s enactment would lead to a substantial appreciation of the dollar (which has, however, not happened during the period). President Trump never endorsed the border adjustment idea, and it was not part of the proposal presented by Secretary Mnuchin on April 26, 2017.

Finally, several factors not directly related to taxes might favor domestically-focused stocks. First, market participants may have higher expectations for US growth versus foreign growth. Second, firms active abroad are more subject to the risk of trade retaliation from other countries. In either case, firms with larger foreign presence would suffer. (Without further evidence, one cannot distinguish between the two explanations, although the fact that many foreign stock markets have performed as well as US markets since the election casts doubt on the theory that differences in growth expectations favor more domestically-oriented US firms.<sup>25</sup>) Third, Trump’s proposed infrastructure plans would naturally benefit domestically-focused firms. Fourth, Trump’s expansionist fiscal intentions and the associated increase in inflation expectations are likely to foster Fed rate hikes. In a number of speeches following the election, Federal Reserve officials suggested that they might tighten policy faster if fiscal policy became more expansionary.<sup>26</sup> While higher inflation per se would hurt the dollar in the long run, the rate

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<sup>25</sup> Between November 8, 2016 and April 28, 2017, the MSCI World ex USA total return (TR) index rose by 11.60%, the Stoxx Europe 600 TR index by 17.05%, the Nikkei 225 TR index by 12.82%, and the Russell 3000 TR index by 13.08%.

<sup>26</sup> The minutes of the December 2016 FOMC meeting, which were released on January 4, 2017, for example, are in line with these statements made by Fed officials before year-end. The minutes state: «Many participants noted that there was currently substantial uncertainty about the size, composition, and timing of prospective fiscal policy

hikes could initially strengthen it, hurting exporters.<sup>27</sup> According to the minutes of the December 2016 FOMC meeting, “[s]urveys of market participants had indicated that revised expectations for government spending and tax policy following the U.S. elections in early November were seen as the most important reasons, among several factors, for the increase in longer-term Treasury yields, the climb in equity valuations, and the rise in the dollar.”

Summarizing, policies that Trump has trumpeted could both hurt and help exporters and firms with significant foreign operations, and it is not obvious whether hurt or help would predominate.<sup>28</sup> But investors through the stock market did take a view. Panels A and B of Table 5 and Figure 4 suggest that investors strongly believed that domestically-oriented companies would be relatively advantaged: abnormal returns are significantly negatively related to the fraction of revenues being earned outside the US. Interestingly, the negative relationship between foreign revenue and stock returns was strong not only on the day following the election, but persisted and strengthened in the following days and weeks. Again, Section 5 will elaborate on the speed of price adjustment. Table 5 also shows that from year-end through the end of April, internationally-oriented companies appear to have done somewhat better (though the difference is not significant at conventional levels). This finding is consistent with, among other things, the border adjustment tax becoming less and territorial taxation becoming more likely over time than they seemed just after the election, or with the prospects for trade war diminishing. However, the net effect, by the end of April, still was that domestically-oriented companies had a strongly significant advantage.

The effects in Table 5 are quantitatively important. For example, a one standard deviation increase in the fraction of foreign revenues (27.5) is associated with a 0.52 (= 27.5\*0.019) percentage point lower first-day Fama-French-adjusted return, about 14% of a standard deviation of these returns, and with a 2.39 percentage point lower cumulative Fama-French-adjusted return

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changes, but they also commented that a more expansionary fiscal policy might raise aggregate demand above sustainable levels, potentially necessitating somewhat tighter monetary policy than currently anticipated.»

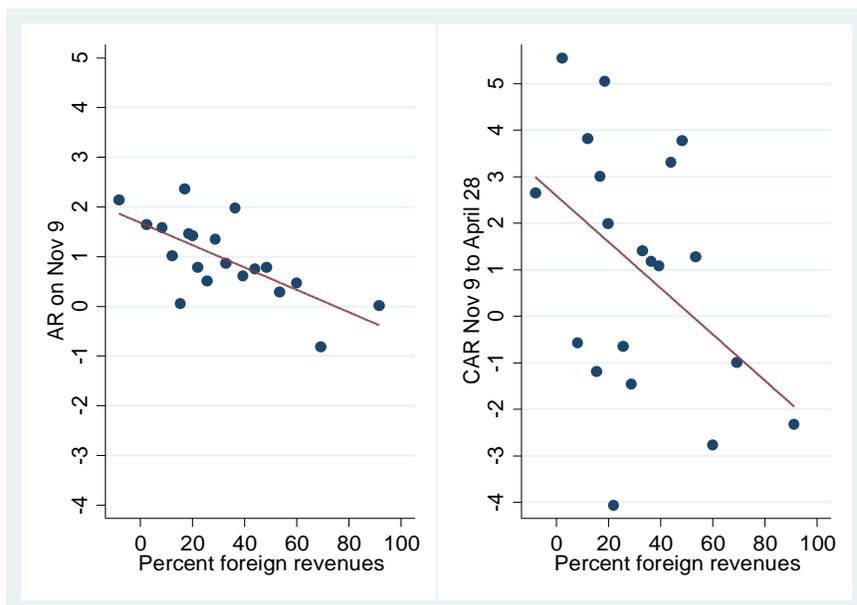
<sup>27</sup> Indeed, the ICE US Dollar index appreciated by 4.44% between November 8 and year-end but was back at its November 9 level by the end of April, while the expected path of the Federal Funds rate implied from Fed Fund futures prices steepened. On November 8, futures markets viewed the most likely range of the Fed Funds target rate following the December 2017 FOMC meeting to be 0.5-0.75% or 0.75%-1% (with both outcomes about equally likely). At the end of the year, the most likely range according to futures prices was 1-1.25%. On April 28, 2017, 1-1.25% or 1.25%-1.5% were viewed as about equally likely.

<sup>28</sup> Analysts initially tended to see advantages for domestic stocks. For example, in a note released on November 9, 2016 (and reported on [zerohedge.com](http://zerohedge.com)), Goldman Sachs chief strategist David Kostin argued that domestic stocks would do better than foreign-exposed stocks (Kostin 2016).

through the end of the year, roughly a fifth of a standard deviation of those returns. By the end of April, the effect had about halved, though it remained sizable, with a company with a one standard deviation higher fraction of foreign revenues having experienced a 1.46 percentage point lower cumulative return.

The remaining panels report similar results for other measures of foreign operations. The share of profits due to foreign operations (Panels C and D) and the degree of foreign activity (Panels E and F) are both negatively related to firms' stock market performance, both immediately after the election and through year-end. However, results available on request show that they are significantly positively related to cumulative returns from January 3 (the year's first trading day) to April 28, consistent with the result seen for foreign revenues.

Some observers argued that importers would suffer from the new administration's tax plan. On the other hand, while foreign assets arguably proxy well for foreign production costs, such foreign production might not lead to imports, and conversely companies may import significant amounts of goods without owning production assets abroad. Overall, the fraction of non-US assets is significantly negatively related to stock returns, though this was not reflected in the first-day reaction; see Panels G and H. Here, the drift continued beyond year-end, indeed at least through the end of April. We caution that the sample is relatively small for this last analysis.



**Figure 4: Binned scatter plots of percent revenue from foreign sources against CAPM-adjusted abnormal returns on November 9, 2016 (left panel) and CARs from November 9 to April 28, 2017 (right panel)**  
(controlling for Fama-French 30 industries fixed effects and cash ETR)

**Table 5: Foreign operations**

This table presents OLS regressions of individual stock returns on firm characteristics and Fama-French 30 industry fixed effects. Panels A, C, E, G, and I use CAPM-adjusted returns, Panels B, D, F, H, and J use Fama-French-adjusted returns. The time periods covered are November 9, 2016 (column 1), from November 9, 2016 to December 30, 2016 (column 2), from November 9, 2016 to February 28, 2017 (column 3), and from November 9, 2016 to April 28, 2017 (column 4). All regressions control for the cash ETR and the same firm characteristics as in Table 2. The sample includes Russell 3000 firms. T-statistics based on robust standard errors are shown in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.

	(1)	(2)	(3)	(4)
Time period:	Nov 9, 2016	Nov 9 - Dec 31	Nov 9 - Feb 28	Nov 9 - April 28
Panel A: CAPM-adjusted returns				
Percent revenue from foreign sources	-0.014*** (-3.69)	-0.069*** (-5.24)	-0.065*** (-4.03)	-0.048** (-2.20)
Cash ETR	0.028*** (2.92)	0.076*** (2.73)	0.082** (2.49)	0.103*** (2.69)
Observations	1,533	1,531	1,521	1,504
R-squared	0.176	0.328	0.132	0.087
Panel B: Fama-French-adjusted returns				
Percent revenue from foreign sources	-0.019*** (-4.81)	-0.098*** (-7.50)	-0.080*** (-5.13)	-0.053** (-2.47)
Cash ETR	0.022** (2.30)	0.024 (0.98)	0.054* (1.73)	0.096** (2.56)
Observations	1,533	1,531	1,521	1,504
R-squared	0.108	0.188	0.107	0.082
Panel C: CAPM-adjusted returns				
Percent profits from foreign activities	-0.016*** (-3.14)	-0.053*** (-3.97)	-0.029 (-1.55)	0.003 (0.13)
Cash ETR	0.019 (1.54)	-0.007 (-0.19)	-0.017 (-0.36)	0.030 (0.48)
Observations	774	774	771	761
R-squared	0.222	0.306	0.096	0.082
Panel D: Fama-French-adjusted returns				
Percent profits from foreign activities	-0.019*** (-3.79)	-0.069*** (-5.23)	-0.038** (-2.09)	-0.002 (-0.10)
Cash ETR	0.023* (1.82)	-0.002 (-0.06)	-0.021 (-0.45)	0.036 (0.60)
Observations	774	774	771	761
R-squared	0.135	0.124	0.083	0.077
Panel E: CAPM-adjusted returns				
Foreign operations in percent of assets	-0.072** (-2.19)	-0.322*** (-3.15)	-0.191 (-1.36)	-0.048 (-0.26)
Cash ETR	0.015 (1.47)	0.029 (0.90)	-0.001 (-0.03)	0.064 (1.16)
Observations	1,052	1,051	1,046	1,031
R-squared	0.180	0.272	0.084	0.071
Panel F: Fama-French-adjusted returns				
Foreign operations in percent of assets	-0.086*** (-2.61)	-0.389*** (-3.66)	-0.224 (-1.63)	-0.064 (-0.34)
Cash ETR	0.018* (1.65)	0.024 (0.80)	-0.005 (-0.13)	0.066 (1.23)
Observations	1,052	1,051	1,046	1,031
R-squared	0.107	0.105	0.072	0.066
All panels				
Constant and controls	Yes	Yes	Yes	Yes

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	(1)	(2)	(3)	(4)
Time period:	Nov 9, 2016	Nov 9 - Dec 31	Nov 9 - Feb 28	Nov 9 - April 28
Panel G:	CAPM-adjusted returns			
Percent foreign assets	-0.000 (-0.04)	-0.045*** (-2.74)	-0.045* (-1.95)	-0.075** (-2.55)
Cash ETR	0.026* (1.96)	0.018 (0.44)	-0.006 (-0.11)	0.037 (0.53)
Observations	623	622	617	610
R-squared	0.257	0.265	0.087	0.089
Panel H:	Fama-French-adjusted returns			
Percent foreign assets	-0.003 (-0.80)	-0.061*** (-3.62)	-0.055** (-2.45)	-0.077*** (-2.70)
Cash ETR	0.023* (1.76)	-0.004 (-0.11)	-0.018 (-0.33)	0.031 (0.45)
Observations	623	622	617	610
R-squared	0.152	0.104	0.089	0.088
Panel I:	CAPM-adjusted returns			
IRFE in percent of MVE	-0.004 (-0.54)	-0.013 (-0.49)	-0.008 (-0.25)	-0.050 (-1.23)
Cash ETR	0.006 (0.50)	-0.016 (-0.44)	0.012 (0.25)	0.032 (0.56)
Observations	787	786	780	768
R-squared	0.229	0.255	0.091	0.089
Panel J:	Fama-French-adjusted returns			
IRFE in percent of MVE	-0.016** (-1.97)	-0.085*** (-3.31)	-0.045 (-1.42)	-0.061 (-1.56)
Cash ETR	0.005 (0.46)	-0.028 (-0.79)	0.003 (0.06)	0.029 (0.54)
Observations	787	786	780	768
R-squared	0.161	0.097	0.081	0.094
All panels				
Constant and controls	Yes	Yes	Yes	Yes

Let us turn to the issue of the repatriation of past earnings. Panels I and J of Table 5 reveal that companies holding large amounts of cash in foreign subsidiaries in fact responded worse to the Trump election. After controlling for foreign revenues (not shown), however, the effect turns insignificant, suggesting that foreign cash holdings at least partly proxy for a firm's overall foreign activities.

It is difficult to parse among the possible explanations for the underperformance of internationally-oriented firms: fears of retaliatory tariffs or trade wars, expectations of the end of the deferral of foreign source income, and concerns about the taxation of accumulated foreign earnings. What is striking is that underperformance is found based on most of the measures of foreign orientation that we consider.

#### 4.4 Capital investment expensing and interest expense deductibility

Another tax-related proposal for making the US more competitive is to strengthen firms' incentives to invest. Specifically, under the House Republicans' tax plan, businesses would no longer need to depreciate capital investments. Rather, they would be able to expense them fully in the period that they are made. Thus, firms would be able to defer corporate income taxes, which should lift their stock prices, with larger effects for firms making greater capital expenditures relative to their size. In order to avoid a tax subsidy for debt-financed investment, the House Republicans' plan would no longer allow net interest expenses to be deducted. This would hurt those firms with greater leverage (which generates value through the tax shield in place up to now) and those with greater proportional interest expenses.

As expected, firms with substantial interest expenses reacted more negatively, as seen in Panels A and B of Table 6. This result may not reflect any expectation regarding interest deductibility being abolished; deductions also lose value when taxes are slashed. However, note that we control for profitability, so at least part of the direct tax effect should be accounted for. Panels C and D also reveal a negative relationship between firm leverage and abnormal returns.

In results not presented, we find no significant relationship between immediate or long-run abnormal returns and CAPEX. (These regressions control for leverage and interest expenses. The lack of such results is not surprising, as any benefit from immediate expensing would be offset to some extent by the non-deductibility of interest, assuming the investments would have been financed with bonds. The same results hold when not controlling for these variables.) Thus, investors seemed to believe that either the Republicans' proposed capital expenditure rule is unlikely to have large effects, or that it is unlikely to be implemented.<sup>29</sup>

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<sup>29</sup> While the House Republicans' plan removes interest deductibility for all firms and allows all firms to expense capital investments, Trump's campaign plan (Trump 2016) was to restrict the possibility to expense capital investment to manufacturers. These companies would be allowed to opt (once in three years) to expense, but would then give up the interest deduction. When confining the sample to the 583 firms with complete data in SIC codes 2000 to 3999 (manufacturing), the coefficient on capital expenditures varies in sign and is mostly insignificant in regressions like those in Table 6.

**Table 6: Interest expense deductibility and leverage**

This table presents OLS regressions of individual stock returns on firm characteristics and Fama-French 30 industry fixed effects. Panels A and C use CAPM-adjusted returns, Panels B and D Fama-French-adjusted returns. The time periods covered are November 9, 2016 (column 1), from November 9, 2016 to December 30, 2016 (column 2), from November 9, 2016 to February 28, 2017 (column 3), and from November 9, 2016 to April 28, 2017 (column 4). All regressions control for the cash ETR, foreign revenue, and the same firm characteristics as in Table 2. The sample includes Russell 3000 firms. T-statistics based on robust standard errors are shown in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.

	(1)	(2)	(3)	(4)
Time period:	Nov 9, 2016	Nov 9 - Dec 31	Nov 9 - Feb 28	Nov 9 - April 28
Panel A: CAPM-adjusted returns				
Interest expense in percent of assets	-0.210** (-2.06)	-1.043*** (-3.03)	-0.468 (-1.08)	-0.986* (-1.89)
Cash ETR	0.021* (1.92)	0.034 (1.05)	0.035 (0.93)	0.057 (1.32)
Percent revenue from foreign sources	-0.013*** (-3.23)	-0.065*** (-4.68)	-0.059*** (-3.49)	-0.046** (-2.02)
Observations	1,278	1,276	1,269	1,256
R-squared	0.182	0.261	0.082	0.072
Panel B: Fama-French-adjusted returns				
Interest expense in percent of assets	-0.270*** (-2.65)	-1.242*** (-3.97)	-0.581 (-1.45)	-1.077** (-2.14)
Cash ETR	0.015 (1.39)	-0.009 (-0.32)	0.012 (0.33)	0.051 (1.19)
Percent revenue from foreign sources	-0.019*** (-4.56)	-0.102*** (-7.41)	-0.078*** (-4.77)	-0.052** (-2.33)
Observations	1,278	1,276	1,269	1,256
R-squared	0.111	0.153	0.080	0.075
Panel C: CAPM-adjusted returns				
Leverage	-1.898*** (-3.57)	-8.163*** (-4.79)	-4.860** (-2.20)	-5.345** (-2.10)
Cash ETR	0.023** (2.45)	0.054* (1.87)	0.067** (1.98)	0.087** (2.20)
Percent revenue from foreign sources	-0.015*** (-3.91)	-0.075*** (-5.77)	-0.069*** (-4.29)	-0.053** (-2.42)
Observations	1,521	1,519	1,509	1,492
R-squared	0.188	0.346	0.138	0.092
Panel D: Fama-French-adjusted returns				
Leverage	-2.145*** (-4.05)	-7.867*** (-4.75)	-4.676** (-2.18)	-5.913** (-2.35)
Cash ETR	0.017* (1.76)	0.003 (0.10)	0.040 (1.23)	0.079** (2.03)
Percent revenue from foreign sources	-0.020*** (-5.06)	-0.105*** (-8.07)	-0.084*** (-5.40)	-0.057*** (-2.70)
Observations	1,521	1,519	1,509	1,492
R-squared	0.122	0.209	0.113	0.088
All panels				
Constant and controls	Yes	Yes	Yes	Yes

**Table 7: Winsorized and trimmed returns**

This table presents OLS regressions of winsorized or trimmed individual stock returns on firm characteristics and Fama-French 30 industry fixed effects. The specifications used to investigate the impact of the different explanatory variables match those in Tables 2 – 6. Specifically, Panel A (cash ETR) uses the specification from Table 2, Panel B (GAAP ETR) that from Table 3, Panels C and D (NOL DTAs and DTLs) the specifications from Panels A to D in Table 4, Panels E and F (foreign revenue and profits) the specifications from Panels A to D in Table 5, and Panel G (interest expense) the specifications from Panels A and B in Table 6. Columns (1) to (4) show results when abnormal returns are winsorized at the 1% and 99% levels, and Columns (5) to (8) trim the observations with the 1% highest and lowest returns. Results are presented for both CAPM-adjusted returns (columns (1)-(2) and (5)-(6)) and Fama-French-adjusted returns (columns (3)-(4) and (7)-(8)). The time periods covered are November 9, 2016 (odd columns) and from November 9, 2016 to April 28, 2017 (even columns). The sample includes Russell 3000 firms. T-statistics based on robust standard errors are shown in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Return treatment:	Winsorized returns				Trimmed returns			
Returns model:	CAPM		Fama-French		CAPM		Fama-French	
	AR Nov 9	CAR Nov 9 - April 28	AR Nov 9	CAR Nov 9 - April 28	AR Nov 9	CAR Nov 9 - April 28	AR Nov 9	CAR Nov 9 - April 28
Panel A:								
Cash ETR	0.037*** (5.37)	0.110*** (3.44)	0.030*** (4.34)	0.104*** (3.32)	0.038*** (6.47)	0.108*** (3.56)	0.034*** (5.78)	0.106*** (3.56)
Panel B:								
GAAP ETR	0.019*** (2.89)	0.046 (1.39)	0.014** (2.14)	0.048 (1.48)	0.024*** (4.26)	0.063** (2.01)	0.021*** (3.75)	0.066** (2.16)
Panel C:								
NOL DTA in percent of MVE	-0.036 (-1.46)	-0.242* (-1.83)	-0.064** (-2.54)	-0.278** (-2.23)	-0.008 (-0.55)	-0.189 (-1.44)	-0.034** (-2.09)	-0.239* (-1.93)
Cash ETR	0.024** (2.20)	0.005 (0.10)	0.020* (1.78)	0.005 (0.10)	0.027*** (2.92)	0.009 (0.20)	0.026*** (2.77)	0.017 (0.37)
Panel D:								
DTL in percent of MVE	0.080*** (3.90)	0.066 (0.58)	0.061*** (2.77)	0.043 (0.38)	0.070*** (4.10)	0.047 (0.43)	0.046*** (2.76)	0.025 (0.23)
Cash ETR	0.005 (0.45)	0.061 (1.24)	0.005 (0.42)	0.061 (1.26)	0.005 (0.51)	0.054 (1.23)	0.007 (0.73)	0.054 (1.24)
Panel E:								
Percent revenue from foreign sources	-0.015*** (-4.01)	-0.047** (-2.25)	-0.019*** (-5.14)	-0.052** (-2.51)	-0.015*** (-4.28)	-0.044** (-2.24)	-0.020*** (-5.57)	-0.047** (-2.45)
Cash ETR	0.033*** (4.39)	0.105*** (2.85)	0.027*** (3.57)	0.098*** (2.73)	0.038*** (5.64)	0.099*** (2.82)	0.033*** (5.04)	0.098*** (2.87)
Panel F:								
Percent profits from foreign activities	-0.015*** (-3.55)	-0.009 (-0.40)	-0.019*** (-4.50)	-0.013 (-0.63)	-0.015*** (-3.88)	-0.009 (-0.41)	-0.019*** (-4.99)	-0.010 (-0.48)
Cash ETR	0.019* (1.74)	0.063 (1.08)	0.021* (1.86)	0.066 (1.17)	0.016 (1.59)	0.090 (1.59)	0.020* (1.85)	0.104* (1.92)
Panel G:								
Interest expenses in percent of assets	-0.250*** (-2.72)	-1.102** (-2.45)	-0.310*** (-3.25)	-1.213*** (-2.79)	-0.211** (-2.46)	-0.900** (-2.15)	-0.282*** (-3.24)	-0.964** (-2.39)
Cash ETR	0.028*** (3.46)	0.054 (1.43)	0.022** (2.58)	0.048 (1.30)	0.030*** (4.31)	0.053 (1.47)	0.026*** (3.71)	0.053 (1.49)
All panels:								
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

#### **4.5 Robustness: Winsorized or trimmed returns**

A potential concern regarding the analysis above is that extreme returns might confound our inferences. We now briefly present summary results for our key findings when adjusting outlier returns. Columns (1) to (4) of Table 7 show results when abnormal returns are winsorized at the 1% and 99% levels, and Columns (5) to (8) trim the observations with the 1% highest and lowest returns. The specifications used to investigate the impact of the different explanatory variables match those in Tables 2 to 6. Virtually the same findings emerge as before, though often with higher statistical significance.

### **5 The speed of information processing: A price contribution analysis**

The results in Section 4 reveal that firms' effective tax rates, deferred tax assets from net operating loss carryforwards, gross and net deferred tax liabilities, foreign operations, leverage, and interest expenses each sizably impacted stock returns after the election. Furthermore, the markets' reaction was immediate, with all but one variable starting to affect stock returns on the day following the election. However, the results in Section 4 also show that for all variables, the long-term response differed from the short-term one, suggesting that markets needed some time to digest information. This section takes a closer look at the speed with which the different variables were incorporated into the cross-section of stock returns.

Note that although all variables are public information, differences in the speed with which they are impounded into stock prices would not be surprising for several reasons. First, while some variables are included in firms' financial statements, others are only disclosed in the footnotes and are sometimes harder to obtain. Second, even knowing the realization of a given variable for a particular firm, assessing the likely impact of policy changes on that firm's prospects adds a measure of complexity. For example, assessing the effect of gross deferred tax liabilities appears relatively straightforward, since such liabilities reflect existing transactions and already account for timing differences between financial and tax accounting. By contrast, assessing the effect of net deferred tax liabilities would require further calculation: as mentioned above, deferred tax assets include tax credits for which the effect of a change in the statutory rate is not immediately obvious. Assessing the impact of foreign revenue on a particular firm is also quite involved, particularly given that it is likely to reflect a combination of tax- and trade-related

effects, each of which is quite challenging to assess. For example, quantifying the impact of a switch to territorial taxation or an end to the deferral of foreign taxes would require information on a firm's effective foreign tax rate in the different foreign tax credit limitation baskets.<sup>30</sup> Similarly, the likelihood of both US trade restrictions and retaliation differs across countries, but few firms provide a breakdown of foreign revenue by country.

In order to assess the speed at which the information from the different variables was incorporated into prices, we adapt the price contribution (PC) methodology commonly used in the market microstructure literature to our setting. (See, for example, Barclay and Hendershott (2003).) The goal is to measure the fraction of the price impact of variable  $i$  on abnormal stock returns that have accrued up to day  $t$ .

To simplify the exposition, we first discuss the analysis for market returns and then describe its extension to our explanatory variables. For each trading day  $t$ , the cumulative price contribution measure for the market return,  $PC_{t,T}^M$ , is simply the fraction of the cumulative market return (up to a given end point  $T$ ) that has accrued by the close of that trading day, i.e.,

$$PC_{t,T}^M = \frac{R_{0,t}}{R_{0,T}},$$

where  $R_{0,t}$  denotes the cumulative return from the election to trading day  $t$ .

Our innovation is to obtain a similar measure for our cross-sectional explanatory variables. To do so, on each trading day  $t$  we estimate the regression coefficients corresponding to each variable  $i$  using cumulative stock and market returns from the election up to that day,  $\beta_{0,t}^i$ . We then compute the *cumulative price contribution* measure for each variable  $i$ ,  $PC_{t,T}^i$ , using the regression betas instead of returns, i.e.,

$$PC_{t,T}^i = \frac{\beta_{0,t}^i}{\beta_{0,T}^i}.$$

By construction,  $PC_{0,T}^i = 0$  and  $PC_{T,T}^i = 1$  for all  $i$ , and  $PC_{t,T}^i$  provides a measure over time of the share of the overall price move in the cross-section of stock returns associated with variable  $i$  that has taken place by day  $t$ .

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<sup>30</sup> Separate limitations on foreign tax credit utilization apply to different categories of income, the main ones being general limitation income and passive income.

A similar analysis can be performed for variance in order to assess the timing of resolution of price uncertainty related to each of the variables. We obtain the variance contribution for each trading day as the square of the difference in the change in the cumulative market return or beta compared to the previous trading day divided by the sum of such squares across all trading days. The cumulative variance contribution is then computed as the sum of the daily variance contributions up to that day. Formally, the *cumulative variance contribution* for the market return for day  $t$ ,  $VC_{t,T}^M$ , is given by

$$VC_{t,T}^M = \frac{\sum_{s=1}^t (R_{0,s} - R_{0,s-1})^2}{\sum_{s=1}^T (R_{0,s} - R_{0,s-1})^2},$$

where we use the convention that  $R_{0,0} = 0$ . Replacing  $R$  with  $\beta^i$  yields the corresponding expression for variable  $i$ ,  $VC_{t,T}^i$ . Here, too, by construction,  $VC_{0,T}^i = 0$  and  $VC_{T,T}^i = 1$  for all  $i$ .

Before we present the results, it is useful to illustrate the difference between the two measures. If the one-day response of two variables is equal to their  $T$ -day response but the first settles after the first day and the second keeps moving around for several days, price contribution on the first day will be one for both variables, but variance contribution for the first variable will exceed that for the second.

Figure 5 shows how the CAPM-adjusted abnormal returns associated with each of the variables in Section 4 and the market return accrued during the first ten trading days after the election.<sup>31</sup> All results are based on the specifications used in Tables 2 to 6. The upper panel reports the cumulative price contributions, and the bottom panel the cumulative variance contributions. We differentiate between the first day and the following days. Focusing first on the upper panel, the value of about 0.8 for deferred tax liabilities (labeled “DTL to MVE” in the figure) says that 80% of the impact of deferred tax liabilities on returns that arose during the first ten trading days after the election had already been reflected in prices on the first day. At the other extreme, the value of about 0.1 for the GAAP ETR says that only about 10% of the overall impact of the GAAP ETR on stock returns that occurred during the first ten trading days took place on the first day.

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<sup>31</sup> Of course, ten trading days is somewhat arbitrary. It is apparent from Figure 1 that some information was processed during the first weekend, maybe because investors had some time to reflect on the implications of the election. Adding another week seems sensible. We thus round up to 10 days. Considering eight (i.e. up to Friday, November 18) or 12 trading days (i.e. up to Friday, November 25 since November 24 was the Thanksgiving holiday) yields similar patterns.

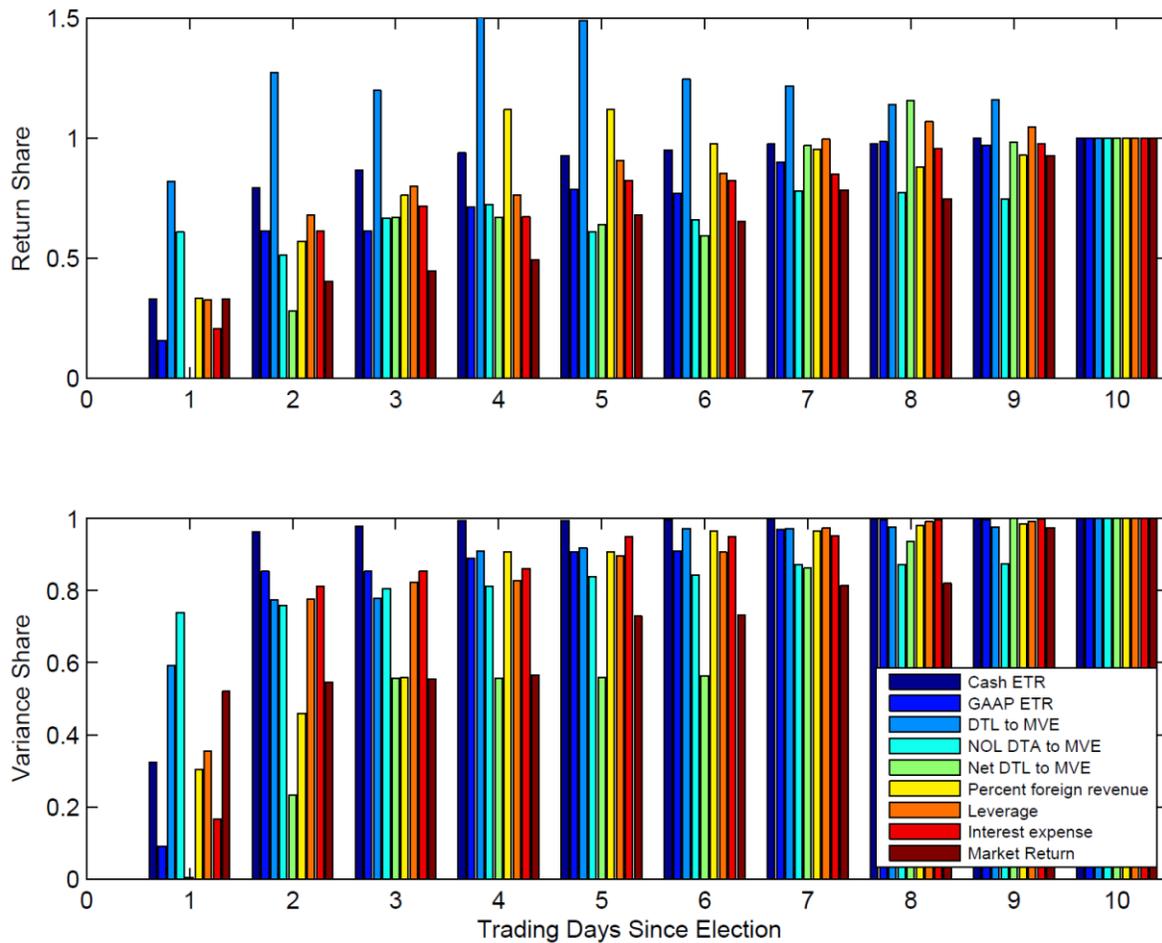
As can be seen in the figure, the speed of price adjustment differs considerably across variables. Deferred tax liabilities and deferred tax assets from NOL carryforwards (NOL DTAs) had the strongest first-day impact, reaching 60%-80% of their ten-day effect on the first day. ETRs, leverage, interest expense, and foreign exposure were priced in modestly on the first day, all achieving less than 30% of their ten-day effect. Starting on the second day, however, investors began to strongly impound these characteristics into prices, quickly overtaking the extent to which NOL DTAs were priced. Net DTLs were priced in the most slowly. Thus, consistent with most of the literature on price responses, we find evidence of delayed incorporation of public information into prices.

Note that as prices respond to major information shocks along multiple dimensions, we should expect some variables to overshoot. That is precisely what happened with deferred tax liabilities, the variable that had the strongest relative first-day impact. By the second day it had overshoot and by the fourth it was 50% over; hence, it eventually reversed. Interestingly, the first-day move associated with DTLs and NOL DTAs was stronger than that in the overall market, while from the second day onwards, the price contribution for most variables exceeded that of the market.

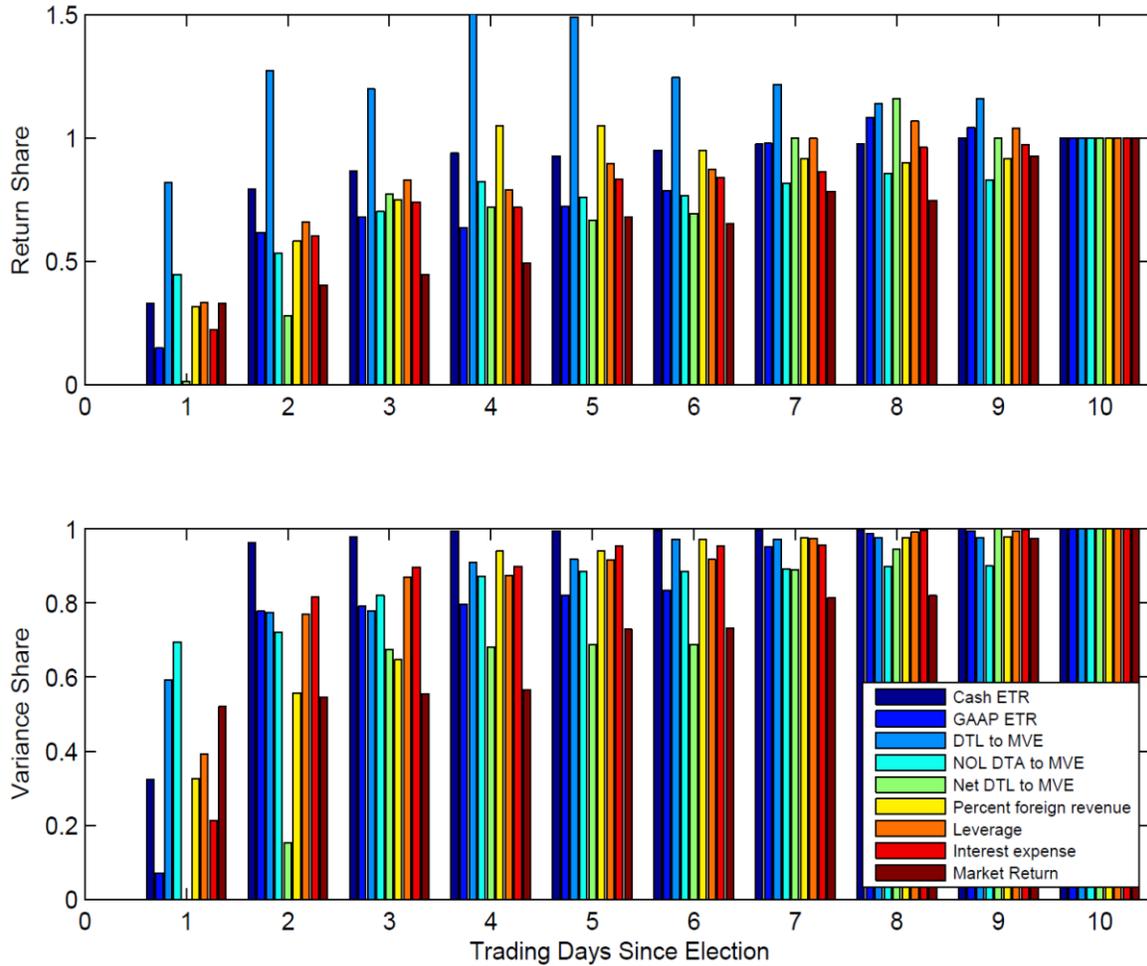
The cumulative variance contributions in the bottom panel reveal a picture similar to that of the price contributions. About 60% (over 70%) of the variability in the deferred tax liability (NOL DTA) coefficient that took place during the first ten trading days occurred on the first day, while none of the variability associated with net DTLs took place on the first trading day. The market return showed an intermediate outcome, with roughly half of the variability occurring on the first trading day. Again, the cash ETR affected prices faster than did the GAAP ETR. Foreign revenue moved at about the same speed as the cash ETR, but faster than the GAAP ETR. Looking beyond the first day, most of the variability in the effect of both ETRs, gross DTLs, NOL DTAs, leverage, and interest expense had essentially taken place by the second day. By contrast, foreign revenue needed until the fourth day and net DTLs until the seventh day to get 60% reflected in prices.

Figure 6 shows the results of similar computations when using Fama-French-adjusted returns rather than CAPM-adjusted returns; the results are remarkably similar. The one notable difference is that the impact of NOL DTAs on prices on the first day after the election is somewhat smaller than for CAPM-adjusted returns.

In sum, the analysis in this section reveals that markets were effective in having prices move in the appropriate, i.e., ten-day direction, the first day. (Net DTLs were a mild exception; they did not move on the first day.) However, the market under-responded, since all movements from day 1 to day 10 (again with the exception of net DTLs) were in the same direction as the first-day moves, but considerably greater. Moreover, in spite of the fact that all eight variables were public information, they affected prices at different speeds.



**Figure 5: Cumulative return and variance contribution using CAPM-adjusted returns**



**Figure 6: Cumulative return and variance contribution using Fama-French-adjusted returns**

## 6 News coverage and major events

Section 5 examined the speed of pricing for the Trump election and the information it conveyed. Indeed, clearly, the most important event that this paper could study given the combination of surprise and magnitude was this one. However, events that occurred up through President Trump’s first 100 days in office provided market participants with additional information on the likely nature and strength of upcoming policy changes. This section investigates the relationship between the news flow and the way the market priced news related to corporate taxes and trade

To conduct our analyses of news coverage, we compute a measure of the amount of news on four key topics: Taxes, trade, health care, and immigration. Although our focus is on taxes and trade, we include health care and immigration in our search because some of the events we

discuss below are related to them. From Bloomberg, we first collect data on the number of media articles containing certain key words.<sup>32</sup> We search for news in our four categories (the corresponding keywords are shown in parentheses): Taxes (“Tax cut”, “Tax reform”, “Tax rate”, “Corporate tax”), trade (“Tariff”, “Tariffs”, “Protectionism”, “Trade war”, “NAFTA”, “Renegotiate”, “Foreign firms”), health care (“Healthcare reform”, “Obamacare repeal”), and immigration (“Border wall”, “Trump wall”, “Immigration”). We standardize, in the period November 9 to April 28, the number of media articles for each search term to have mean zero and unit standard deviation, and we then compute the average of the numbers corresponding to the search terms in each category.

We first use a few salient events to illustrate that our news flow measures accurately capture the nature of the events and show how the market priced news related to corporate taxes and trade on those key dates. Naturally, as time passes, more events will occur, but for the purposes of understanding how the market responds to prospects for corporate tax cuts and other issues, these events are already instructive. After analyzing the key events, we consider our entire sample period and show that the pricing of taxes in the cross-section of stock returns is strongly related to tax-related news flows.

## **6.1 News flows and the pricing of taxes on key event dates**

Table 8 presents a timeline of the key events studied. For each event, the date and weekday are shown in the first two columns. Column (3) briefly summarizes what happened on that day. (Details follow below.) Columns (4) to (7) show the standardized quantitative scores for the four news categories, i.e., how many standard deviations above or below the mean the number of media articles regarding each category was on the day shown. Column (8) then shows the coefficient on cash ETR in regressions of CAPM-adjusted returns on that day on cash ETR and standard firm controls and industry fixed effects; they represent the incremental impact of the cash ETR on the cross-section of stock returns on that day. (As can be seen, the coefficient in the first cell is the same as in Panel B of Table 2.) Columns (9) and (10) show coefficients from regressions that also include the percentage foreign revenues. Columns (11) to (13) report the

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<sup>32</sup> We use the Bloomberg News Trend (NT) function, which reports the number of times that a certain word or word combination has appeared in news stories on a given day. The news counts are derived from over one hundred authoritative global sources. The data are available historically but are missing for November 11, 2016.

corresponding results for FF-adjusted returns. The results for both sets of returns are very similar, with a few exceptions on which we comment below.

Several facts are striking about Table 8. The news intensity varies greatly across days. For example, on April 26, when the administration announced that tax reform would be launched, the news coverage of tax topics was 3.54 standard deviations above the mean, but the other topics showed no unusual spikes. Similarly, on the days of the first attempt at abolishing Obamacare, news regarding health care was intense, but media coverage of the corporate tax topic was half a standard deviation below the mean.

Turning to the specific events and their reflection in stock prices, first, on November 30 (a Saturday), President-Elect Trump announced that he would nominate Steve Mnuchin as Treasury Secretary. This business-friendly nomination was followed by a boost to high-tax firms on the first trading day after the announcement.

Second, the Inauguration, while hardly a surprising date, is interesting because the content of the Inauguration speech was at least to some extent news. The speech was short. The topic of taxes was mentioned explicitly only once, as were the topics of trade and immigration, while the issue of borders was emphasized. On the Monday following the Inauguration, the market's confidence in taxes being cut fell, as can be seen from the negative coefficient on cash ETR on that day.

Third, on the day when Trump issued the Travel Ban, January 27, news coverage of the trade and immigration topics increased substantially. The results for the CAPM-adjusted returns suggest that the market regarded the announcement of the travel ban as largely immaterial from a tax perspective. For Fama-French-adjusted returns, the cash ETR is significant.<sup>33</sup> Foreign revenue shows a perhaps surprising positive coefficient on the day the ban was announced. We interpret this in light of the fact that on the day before January 26, foreign revenue had entered significantly negatively. This may have to do with the fact that on January 25 a leak had occurred that a travel ban would be put into place. Knowing that a travel ban would be issued may have suggested international tensions, hurting foreign-exposed companies. When it became clear, on January 27, that the travel ban covered only relatively minor trading partners (though

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<sup>33</sup> Further investigation reveals that on this day, the HML factor showed a substantial negative return (minus 0.65%). Given that high-tax firms load more on this factor, this results in a larger positive coefficient on cash ETR.

unconstitutionally targeting the Muslim population), this appeared to have assuaged the market.<sup>34</sup>

Fourth, the first attempt to abolish Obamacare was another major event in the Trump administration's first 100 days. Media coverage of the health topic skyrocketed. Consistent with the fact that this topic has little direct relation to corporate taxes, the cash ETR explains little of the stock price movements on these days. On the days after the setback for Trump and the Republicans, high-tax firms benefited significantly (not shown). This may have to do with Trump's announcement that he would now focus on taxes, though this announcement may have been seen as having less than full force after the at least temporary defeat he had just experienced.

Finally, the Trump administration announced at the end of April that tax reform would be concretely launched. On Saturday, April 22, Trump tweeted "Big TAX REFORM AND TAX REDUCTION will be announced next Wednesday". On the first trading day that followed, high-tax firms saw substantial abnormal returns, and media coverage was one standard deviation above the mean. High-tax firms also outperformed on the day of the actual tax plan announcement, Wednesday, April 26.

Interestingly, the "tax plan" now also includes the idea of a territorial tax system. The latter should in principle be good for firms with substantial business abroad. The market did not immediately and strongly respond to this element, though firms with large foreign revenues were relative winners (although below conventional significance levels when using CAPM-adjusted returns) on the day after the announcement. (Other measures of international activities show a similar direction, but overall no significant results.)

In sum, these findings shed light on the process by which the market incorporated the potential benefits of a corporate tax cut, and its likelihood, into prices. It is important to note, however, that media coverage and pricing do not move in lockstep. Markets also priced in tax issues on some days when media attention to taxes was low, and there are some instances of days with large coverage of tax issues and little price action. For example, at the end of April, there was large media coverage of tax issues almost every day, but tax-related variables significantly affected stock prices only on some days. This suggests that even in finance-related areas, media

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<sup>34</sup> The ban was formally imposed at 4.42 p.m., after the market close, but it is likely that news of the actual content of the ban leaked before that, given that a similar leak had occurred just a few days earlier.

coverage may address topics that investors do not view as value-relevant or that have already been priced in.

**Table 8: Special days and media coverage**

This table presents summary results of media coverage and the pricing of the cash ETR and foreign revenue in the cross-section of stock returns for a series of key events during our sample period. Columns (1) to (3) describe the dates and nature of the events considered. The news topics columns (4) to (7) show the number of media articles on each day concerning four topics (see the text for details on the search algorithm), standardized to mean zero and unit standard deviation. Columns (8) and (9)-(10), respectively, present results of OLS regressions of CAPM-adjusted stock returns on firm characteristics and Fama-French 30 industry fixed effects for the individual events. Columns (11) and (12)-(13), respectively, do the same for FF-adjusted stock returns. Empirical model A includes the cash ETR. Empirical model B in addition includes percent foreign revenue. All regressions for both models control for the standard controls (log market cap, revenue growth, profitability, and Fama-French 30 industries), but only the coefficients on the key variables of interest are presented. The sample includes Russell 3000 firms. T-statistics based on robust standard errors are shown in parentheses. \*\*\*  $p < 0.01$ , \*\*  $p < 0.05$ , \*  $p < 0.1$ .

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Date	DoW	Description	Tax	Trade	Health	Imm.	CAPM-adjusted returns			Fama-French-adjusted returns		
							Cash ETR	Cash ETR	Foreign revenue	Cash ETR	Cash ETR	Foreign revenue
Nov 9	Wed	Day after election	0.97	2.17	0.69	1.89	0.033*** (3.70)	0.028*** (2.93)	-0.014*** (-3.68)	0.027*** (3.09)	0.022** (2.30)	-0.019*** (-4.81)
Dec 1	Mon	First trading day after Mnuchin nominated	0.77	0.73	-0.65	-0.35	0.020*** (4.89)	0.022*** (4.39)	-0.012*** (-4.38)	0.013*** (3.28)	0.014*** (2.94)	-0.016*** (-6.17)
Jan 20	Fri	Inauguration	0.29	0.76	-0.17	0.17	-0.002 (-0.75)	-0.001 (-0.53)	0.001 (0.61)	-0.002 (-1.09)	-0.002 (-0.88)	0.000 (0.30)
Jan 23	Mon	First trading day after Inauguration	0.22	1.36	-0.16	-0.26	-0.008*** (-3.11)	-0.008*** (-3.20)	-0.001 (-0.31)	-0.006** (-2.56)	-0.007*** (-2.63)	0.000 (0.19)
Jan 26	Thu	Day before travel ban issued	0.46	1.11	-0.15	2.41	-0.002 (-0.67)	-0.003 (-0.90)	-0.007*** (-2.84)	-0.003 (-0.98)	-0.005 (-1.21)	-0.007*** (-2.94)
Jan 27	Fri	Travel ban issued	0.30	1.86	-0.48	1.91	0.003 (1.26)	0.004 (1.26)	0.004** (2.19)	0.006** (2.20)	0.007** (2.12)	0.005*** (3.14)
Jan 30	Mon	First trading day after travel ban blocked	0.07	0.75	-0.86	1.72	-0.003 (-0.73)	-0.007* (-1.77)	0.001 (0.45)	-0.000 (-0.09)	-0.004 (-1.12)	0.003 (1.45)
Mar 23	Thu	Day before health care bill pulled	0.47	-0.33	1.90	-0.37	0.003 (1.27)	0.003 (1.09)	0.002* (1.70)	0.000 (0.14)	0.000 (0.08)	0.000 (0.19)
Mar 24	Fri	Health care bill pulled	1.11	-0.57	2.51	-0.25	-0.002 (-0.63)	-0.000 (-0.05)	0.001 (0.38)	-0.001 (-0.29)	0.001 (0.30)	0.001 (0.60)
Mar 27	Tue	First day after health care bill pulled	1.05	-0.58	2.28	0.20	0.006 (1.18)	0.002 (0.67)	0.002 (1.45)	0.008 (1.48)	0.004 (1.28)	0.003* (1.86)
Apr 24	Mon	First trading day after tax plan tweet	1.16	0.23	0.36	0.67	0.016*** (5.40)	0.017*** (5.22)	-0.002 (-0.73)	0.014*** (4.76)	0.015*** (4.60)	-0.003 (-1.30)
Apr 25	Tue	Day before tax plan announced	2.36	1.20	0.36	1.18	-0.001 (-0.31)	-0.001 (-0.33)	0.003 (1.19)	-0.001 (-0.34)	-0.001 (-0.35)	0.003 (1.10)
Apr 26	Wed	Tax plan announced	3.54	0.91	1.02	1.02	0.008** (2.45)	0.006 (1.57)	-0.001 (-0.50)	0.007** (2.07)	0.005 (1.28)	-0.002 (-0.92)
Apr 27	Thur	Day after tax plan announced	2.96	1.52	0.59	0.68	0.003 (0.56)	0.004 (0.64)	0.005 (1.57)	0.006 (1.41)	0.008 (1.38)	0.008** (2.32)

## 6.2 News flow and the pricing of taxes over the entire sample

More generally, one may wonder whether there is an overall statistically significant relationship between news coverage and the extent to which prices move differentially for high-tax and low-tax firms. This was indeed the case, as we now establish in two ways. First, we run regressions, each day, of abnormal returns (both CAPM-adjusted and Fama-French-adjusted) on the cash ETR and control variables, retaining the coefficients on the explanatory variable. Out of the 117 coefficients, 52 are significant at the 5% level or above, with half of them positive and half negative. On positive-coefficient days, the amount of tax news is on average significantly larger than on negative-coefficient days (t-statistic: 3.01). A Kolmogorov-Smirnov test also rejects equality of distributions of tax news on the two types of days ( $p = 0.01$ ); it does not reject the hypothesis that days with a positive coefficient on cash ETR have more tax news ( $p = 0.98$ ). The correlation between the coefficient on the tax rate and the “tax news” variable on significant days is 0.42 ( $p < 0.01$ ); when using all days, the correlation is still 0.29 ( $p < 0.01$ ).

Second, we compose a panel of firm-day observations. We pool abnormal returns for all firms and run panel regressions, including the cash ETR, the news proxy, and the interaction between these two variables (as well as controls). Note that because the media variables vary by day, the interaction term also varies by day. We cluster standard errors on the firm-level to account for serial correlation of error terms. As an additional test, we also cluster standard errors on the daily level to account for across-firm correlations of error terms. Table 9 shows the results. In this analysis, we multiply the dependent variable by 100, so that returns are expressed in basis points (bps), as otherwise the daily coefficients would be too small to be informative. The positive significant coefficient on cash ETR shows that on average, high-tax firms benefited each day (though there was obviously variation over time, as mentioned above).

The key result from this analysis is that the interaction of the cash ETR with tax news is significantly positive in all regressions. Interestingly, the cash ETR also interacts significantly with trade news, which is not surprising given that some topics captured in the trade news variable are often discussed in conjunction with tax plans. (For example, the “border adjustment” would often be discussed in the context of tariffs.) Also interestingly, if anything, it appears that foreign revenue interacts more strongly with tax news narrowly defined than with trade news.

However, this analysis cannot determine whether tax or trade-related issues were more important in leading internationally oriented firms to react relatively negatively to the election.<sup>35</sup>

Of course, these news-story results do not imply causality. It may be that media articles drive investor attentions, but it may also be that journalists write up articles during the day when moves in the market are occurring. Our results here mean that there is a strong association of media coverage of the tax topic and the way stock prices reflect the prospects of the tax cut.

**Table 9: Daily abnormal returns and media coverage**

This table presents panel regressions of daily CAPM-adjusted returns (columns (1) to (4)) and Fama-French-adjusted returns (columns (5) to (8)), both expressed in basis points (bps), on firm characteristics, media coverage, and interactions of the cash ETR and foreign revenue with media coverage of tax and trade issues. (The text provides details on the news search algorithm.) The media coverage scores are standardized to mean zero and unit standard deviation. All regressions control for the standard controls, industry and day fixed effects (which subsume the daily news variables), but only the coefficients on the key variables of interest are presented. The sample includes Russell 3000 firms. T-statistics based on standard errors clustered at the firm level (columns (1) to (3) and (5) to (7)) or clustered at both the firm and the day level (columns (4) and (8)) are shown in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Abnormal returns:	CAPM-adjusted (in basis points)				Fama-French-adjusted (in basis points)			
Cash ETR	0.099*** (3.52)	0.094*** (2.91)	0.071** (2.25)	0.071 (1.10)	0.093*** (3.32)	0.089*** (2.73)	0.070** (2.24)	0.070 (1.29)
Cash ETR * Tax News	0.354*** (8.72)	0.374*** (7.78)	0.201*** (3.79)	0.201** (2.07)	0.286*** (7.65)	0.303*** (6.86)	0.169*** (3.27)	0.169** (2.13)
Cash ETR * Trade News			0.356*** (5.12)	0.356* (1.84)			0.275*** (4.06)	0.275* (1.92)
Percent revenue from foreign sources		-0.041** (-2.11)	-0.041** (-2.12)	-0.041 (-1.29)		-0.043** (-2.21)	-0.042** (-2.18)	-0.042 (-1.08)
Foreign revenue * Tax News		0.001 (0.04)	0.001 (0.03)	0.001 (0.01)		-0.008 (-0.40)	-0.003 (-0.13)	-0.003 (-0.04)
Foreign revenue * Trade News			0.000 (0.02)	0.000 (0.00)			-0.010 (-0.38)	-0.010 (-0.08)
Constant	0.550 (0.17)	-2.244 (-0.63)	-2.249 (-0.63)	-2.249 (-0.63)	-0.640 (-0.20)	-3.426 (-0.95)	-3.429 (-0.95)	-3.429 (-0.95)
Observations	226,312	176,747	176,747	176,747	226,312	176,747	176,747	176,747
R-squared	0.046	0.044	0.044	0.044	0.007	0.007	0.007	0.007
Day fixed effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Industry fixed effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
S.e. clustered on firm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
S.e. clustered on day	No	No	No	Yes	No	No	No	Yes

<sup>35</sup> Tax and trade news are correlated. We have experimented with making the variables orthogonal to each other. The result that tax news significantly explain the return differences between high-tax and low-tax firms persists, but no firm conclusions regarding the relative importance of tax news or trade news in explaining the return differences between internationally-oriented and domestically-oriented firms can be drawn.

## **7 Trump troubles and stock price movements: An out-of-sample test**

Recent events have brought new troubles for the Trump Presidency. The market in aggregate at least initially responded quite negatively to the news cycle surrounding the firing of FBI Director Comey. On May 9, 2017, after the market close, news broke that President Trump had fired Director Comey. While the official statement at first indicated that he had been fired for mishandling the Hillary Clinton email probe, media outlets quickly connected the firing to the fact that Mr. Comey had been supervising the investigation into possible connections between the Trump campaign and Russia. On the following day, in a meeting with Russian foreign minister Lavrov and Russian ambassador Kislyak, Trump said “I just fired the head of the FBI” and added, referring to Comey: “He was crazy, a real nut job. I faced great pressure because of Russia. That's taken off.” On May 16 (again after the market close), news surfaced about the existence of a memo written by Comey following his meeting with Trump on February 14. That memo stated that President Trump had tried to convince Comey to drop the investigation against his former National Security advisor Flynn, saying, “I hope you can let this go.” Some media accounts suggested that this represented obstruction of justice, a serious offence. Stock index futures started dropping during overnight trading. On May 17, stock markets plunged, with the Russell 3000 falling 1.86%, its biggest drop in eight months. On the evening of May 17, former FBI Director Robert Mueller was appointed as a special counsel to oversee the Russia probe.

While far from being as consequential or surprising as the original event, the election, it is worth exploiting this “beyond-study-period” event to test our conjecture that taxes matter greatly to firm value. The market viewed the President as having gotten into trouble. Therefore, the probability of tax reform being delayed, being smaller, or simply being shelved had increased. Indeed, the probability of Trump’s impeachment or leaving office before the end of his term implied by political betting markets rose sharply and the probability of a corporate tax cut fell substantially in this period.<sup>36</sup> Reduced prospects for tax reform should be bad news for high-tax firms. Table 10 provides some support for this idea.

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<sup>36</sup> For example, on PredictIt.org, the probability of Trump still being president at the end of 2018 dropped from 74% on May 8 to 56% on May 17, while Ladbrokes (2017) reports that Trump was, on May 17, odds-on to be impeached. Over the same period, the probability of the corporate tax rate being cut by the end of 2017 on PredictIt.org dropped from 58% to 36%.

**Table 10: Trump Troubles**

This table present results of OLS regressions of CAPM-adjusted stock returns on firm characteristics and Fama-French 30 industry fixed effects on May 10 and May 17, 2017. Panel A includes the cash ETR. Panel B in addition includes percent foreign revenue. All regressions for both models control for the standard controls (log market cap, revenue growth, profitability, and Fama-French 30 industries), but only the coefficients on the key variables of interest are presented. The sample includes Russell 3000 firms. T-statistics based on robust standard errors are shown in parentheses. \*\*\*  $p < 0.01$ , \*\*  $p < 0.05$ , \*  $p < 0.1$ .

	(1)	(2)
Days:	May 10, 2017	May 17, 2017
Panel A:		
Cash ETR	-0.007 (-1.48)	-0.017*** (-5.04)
Observations	1,922	1,920
R-squared	0.034	0.122
Panel B:		
Cash ETR	-0.008 (-1.55)	-0.013*** (-3.39)
Percent revenue from foreign sources	0.002 (0.82)	-0.005*** (-2.74)
Observations	1,503	1,502
R-squared	0.043	0.138
Both panels:		
Controls	Yes	Yes

On May 10 (the first trading day after the Comey firing), high-tax firms reacted very modestly negatively (but not significantly so). On May 17 (the day of the big negative aggregate move), high-tax firms lost significantly. Internationally-oriented firms also lost on that day. This is consistent with the fact that since the end of the year, these companies had actually been doing relatively well, as mentioned in Section 4.3. Once again, this effect may be due to a combination of factors, ranging from mere ripples (tax reform being delayed) to earthquakes (Trump losing the Presidency).

## 8 Corporate taxes and the aggregate market

Though our focus is on individual companies, it is important to note the dramatic stock market development since Trump's election became known. The overall stock market, as represented by the Russell 3000 total return index, marched upward by 5.82% to year-end, and a further 1.46% through the Inauguration on January 20, 2017. It then continued to move up and reached a new

high on March 1, 2017, the day after Trump's speech to Congress. As of the last trading day before the 100-days-in-office mark, April 28, 2017, the Russell 3000 was up 13.08% from its pre-election level.

Donald Trump's election as President immediately transformed expectations of the policies that would be adopted in 2017, and those expectations continued to shift once he assumed office. Examining the reactions of the cross-section of stocks provides an opportunity to investigate the role of specific factors in explaining aggregate market moves. Specifically, the fact that taxes were one of the key drivers of returns in the cross-section during the period from the election through Trump's first 100 days raises the obvious question of the extent to which tax reform expectations drove the impressive rise in the overall market.

To provide a final perspective on the importance of corporate taxes and firms' foreign activities, we conduct the following test, inspired by the Fama-MacBeth method. Each day, we run a cross-sectional regression of excess stock returns on the cash ETR (and, in the extended model, on percent foreign revenues) and control variables, including each stock's exposure to the market, size, and value factors. Note that since market moves (and indeed moves in the size and value factors) might themselves be affected by taxes, we use raw excess returns rather than CAPM- or Fama-French-adjusted returns. The coefficient on each variable shows the magnitude of the impact that a given characteristic of a stock had on excess returns that day. An asset-pricing oriented interpretation of this approach is as follows: As is the case in the Fama-MacBeth method, the coefficient on each variable on a given day represents the return on a zero-cost (long-short) portfolio with unit exposure to the variable in question and no exposure to the others. That is why it is important to include the market, size, and value factor exposures as explanatory variables.<sup>37</sup> Thus, for example, the coefficient estimate on the cash ETR on a given day is the return on that day of a portfolio that is long high-tax firms and short low-tax firms (with the difference in ETR between the long leg and the short leg equal to one percentage point) and has no exposure to market, value, size, etc.<sup>38</sup> (The daily constant then captures the return of a

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<sup>37</sup> While it might at first sight seem odd to include both log market cap and the size factor exposure in the regression, including both is appropriate because they measure different things. The size exposure measures how a given stock moves with the size factor, not the size of the firm as such – some small stocks might move like large stocks and conversely. For example, in our sample, AbbVie Inc. has a market capitalization of over \$100 billion and a positive exposure of 0.55 to the size factor.

<sup>38</sup> Obviously such a portfolio would involve significant leverage. However, since the explanatory variables remain constant through time, the underlying portfolio is actually the same each day; the only difference across days is the portfolio's return. Hence, rescaling the portfolio would not affect the results of our analysis.

portfolio that is not exposed to any of the variables, and accounts for return drivers not captured by our cross-sectional model.) In a second step, we run a time-series regression of the daily excess returns on the Russell 3000 total return index on the daily coefficients. The estimates from this regression tell us which factors were driving the market's overall returns during the period.

The results are shown in Table 11 and are illustrated in Figure 7.<sup>39</sup> There is a highly significant relationship between coefficients on the cash ETR and on foreign revenues and moves of the market as a whole. In other words, the market tended to move upwards (downwards) on those days when high-tax firms outperformed (underperformed) low-tax firms. This is apparent both in the simple correlation (column (1)) and when all explanatory variables are included (columns (2) and (3)).<sup>40</sup> The effects are sizable: A one standard deviation higher sensitivity of stock returns to taxes on a given day is associated with 28% of a standard deviation increase in Russell 3000 returns. A similar result applies for foreign revenues. That the coefficient on foreign revenue is positive indicates that the market tended to go up on days where firms with large foreign exposure did better than firms with low foreign exposure (whereas, our analysis showed, on average domestically-oriented firms did better over the time period). We note that these aggregate-market effects might reflect linkages between the US and the world economy and not merely tax or trade effects.

While these results cannot conclusively prove a causal impact of the prospect for tax cuts on the market development after the election, they strongly suggest that corporate taxes play an important role for aggregate stock market valuations and the economy at large.

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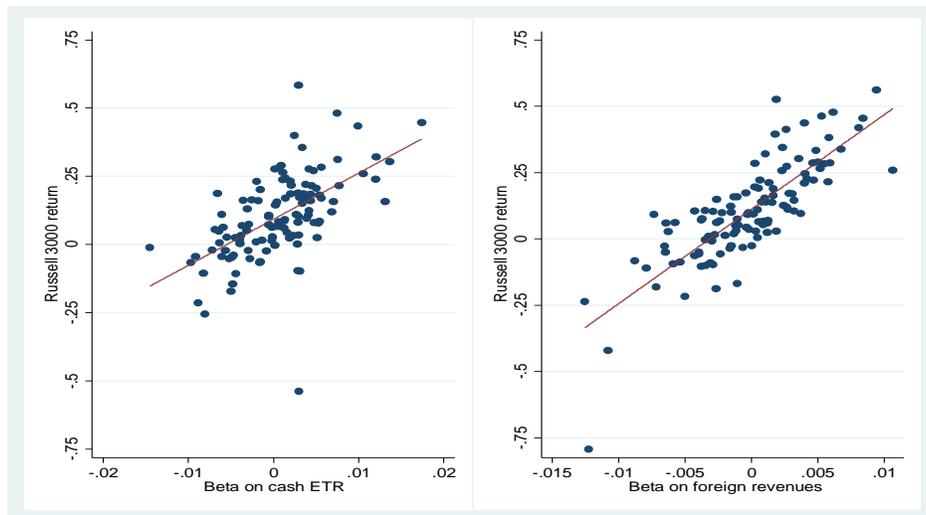
<sup>39</sup> Note that whenever the daily constants from the cross-sectional regressions are included as explanatory variable in the time-series regression, we expect its coefficient of determination to be very large.

<sup>40</sup> As an aside, observe that the coefficient on the Fama-French market beta is significantly lower than one, indicating that market moves during the period were smaller than the returns on a long-short portfolio of stocks with unit beta exposure would imply, highlighting that other factors played a role for market moves during the period.

**Table 11: Aggregate market moves and daily betas**

This table presents OLS regressions of the daily returns on the Russell 3000 total return index on regression coefficients obtained from daily cross-sectional regressions of raw stock returns on firm characteristics. T-statistics based on robust standard errors are shown in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1.

	(1)	(2)	(3)
Dependent variable:	Return of the Russell 3000		
Beta on cash ETR	16.459** (2.58)	16.908*** (8.71)	19.099*** (10.39)
Beta on percent foreign revenue			35.531*** (9.47)
Beta on Ln(Market value of equity)		8.221*** (22.81)	8.190*** (28.56)
Beta on percent revenue growth		-3.976 (-0.81)	-4.099 (-0.79)
Beta on profitability		4.877** (2.55)	3.577*** (2.65)
Fama-French Beta		0.902*** (25.14)	0.878*** (24.26)
Frama-French Beta on SMB		0.029 (0.55)	0.042 (1.17)
Fama-French Beta on HML		0.110*** (2.84)	0.158*** (5.12)
Daily constant		0.817*** (26.29)	0.818*** (32.23)
Constant	0.093** (2.19)	0.010 (0.86)	0.007 (0.66)
Observations	117	117	117
R-squared	0.077	0.930	0.945



**Figure 7: Binned scatter plots of daily return on the Russell 3000 total return index against coefficients on the cash ETR (left panel) and on percent foreign revenues (right panel) from daily cross-sectional regressions of raw stock returns on firm characteristics (controlling for all other variables shown in columns (2) and (3) of Table 11)**

## 9 Conclusion

The election of Donald J. Trump as the 45<sup>th</sup> President of the United States of America surprised the nation and its investors. Expectations for significant tax reductions skyrocketed given that Republicans would also control both houses of Congress. This study traces stock market reactions from the day before the election through President Trump's first 100 days. It finds strong evidence that the cross-section of stock returns over this period reflects expectations of a major corporate tax cut. Specifically, high tax-paying firms (as measured by both the cash ETR and the GAAP ETR) and those with high deferred tax liabilities benefitted substantially, while those with large deferred tax assets from NOL carryforwards underperformed. Investors also downgraded companies with high leverage and high interest expenses, due to the loss of deductibility under some prominent tax reform plans. By contrast, investors think that plans to allow immediate expensing of capital investments are either unlikely to be implemented, or of little consequence.

Stock prices show that investors are concerned about US companies with significant foreign exposure. There are many possible explanations of internationally-oriented firms' underperformance: fears of retaliatory tariffs or trade wars, expectations of the end of the tax deferral of foreign source income, and concerns about the taxation of accumulated foreign earnings. Each by itself could contribute to the underperformance finding.

It is worth stressing that these significant relative stock movements have been overwhelmingly due to changes in expectations about policies, not policy changes themselves, since by the 100-day mark no legislation had even been initiated on either tax policy or fundamental foreign trade matters. Interestingly, markets digested information in the above-mentioned factors influencing the differential performance of stocks at varying speeds. To examine the important question of how quickly different types of information gets incorporated into stock prices, we adapted the price contribution methodology commonly used in the microstructure literature to our multidimensional setting. Specifically, rather than considering returns on individual assets, we used the cross-section of stock price reactions over the ten days after the election to assess the speed of price adjustment for each factor. To our knowledge, this is the first time that coefficients from a cross-section of stock price reactions have been used to measure the speed of information processing. We believe that this method can be fruitfully employed in a range of other settings.

Specifically, we examined the major movements in stock prices in the first 10 days after the election, and determined how much of the movement due to the above factors had occurred by each day. None of the eight factors exerted its full effect the first day; indeed all but one crept up through the first three days. Deferred tax liabilities experienced the fastest impact, 80% of its total on the first day. Next fastest were deferred tax assets from NOL carryforwards. As might be expected, net deferred tax liabilities (whose effect is cumbersome to assess for reasons that we discuss in the paper) were slowest. The cash ETR affected returns to a greater extent than the GAAP ETR. The negative impact of expected policy changes on high-leverage firms, firms with large interest expenses, and internationally-oriented firms also required several days to be reflected in prices. Their one-day response equaled only about 30% of their ten-day response.

How does media coverage relate to tax-related stock price movements? Our analysis documents that high-tax firms outperformed low-tax firms on days when media coverage of tax reform was high. Finally, we show that what's good for high-tax firms is good for the market. When those firms did relatively better, the market on average moved upwards sizably. This demonstrates the importance of corporate taxes for aggregate stock market valuations, and presumably the economy at large.

The Trump election and the early days of the Administration affected the relative health of corporations, as reflected in their stock market reactions. This dramatic change in circumstances is likely to spur additional work in the future study of empirical corporate finance topics. First, there are surely additional dimensions that one can look at in the cross-section of stock returns.<sup>41</sup> Second, company policy responses may also be observed, especially as regards investments and perhaps even capital structure decisions. The choice to take losses (perhaps even “big baths”) can also be a function of expected tax changes. For example, Warren Buffett indicated at Berkshire Hathaway's 2017 shareholder meeting that because realizing losses would offset Berkshire's other profits, this option would be more valuable while taxes remain high. As of the time of this writing, whether the potential corporate tax reform envisioned by the current Administration will be realized, and if so how adjusted, is unclear. Yet, as Hanlon and Hoopes (2014) point out (p. 123), in other cases, firms have responded to proposed changes to (dividend) tax law that eventually did not materialize.

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<sup>41</sup> For example, in a more recent study, Brown and Huang (2017) investigate how immediate stock price reactions to the 2016 election vary depending on executives' access to President Obama.

It is important to caution the reader that substantial new information will unfold as the Trump Presidency progresses, particularly since so few policies were actually implemented in the first 100 days. It was expectations driving price movements. Expectations about policies may not be realized, in which case relative prices should be expected to revert. Whatever one's politics, the first period of the Trump Presidency lends confidence to one prediction: significant policy surprises, and significant changes in company stock prices, lurk in the near- and not-so-near term future.

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