The Returns to Hedge Fund Activism: An International Study

Marco Becht

Solvay Brussels School, Université libre de Bruxelles, CEPR and ECGI

Julian Franks

London Business School, CEPR and ECGI

Jeremy Grant

CM-CIC Securities

Hannes F. Wagner

Bocconi University

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Abstract

This paper provides evidence that returns to hedge fund activism are driven by engagement outcomes. We use a sample of 1,740 activist engagements from 23 countries over 11 years to estimate the performance of activism across North America, Europe and Asia. Striking differences emerge across countries in terms of outcomes of the engagements, both incidence and type of outcomes, and it is these differences that explain the variation in performance of activism. Although there is evidence that activists put companies into play, frequently those takeovers are preceded by significant and profitable governance changes. The U.S. model of activism is mimicked by foreign activists, who outperform U.S. activists in their domestic markets.

In what can only be considered a form of extortion, activist hedge funds are preying on American corporations to create short-term increases in the market price of their stock at the expense of long-term value. Prominent academics are serving the narrow interests of activist hedge funds by arguing that the activists perform an important service by uncovering "under-valued" or "under-managed" corporations and marshalling the voting power of institutional investors to force sale, liquidation or restructuring transactions to gain a pop in the price of their stock. (Lipton, 2013, http://blogs.law.harvard.edu)

I. Introduction

Shareholder activism has gone global. In the U.S., where activism originated, it remains controversial, as illustrated by Martin Lipton's comment cited above. Internationally, there is at best limited evidence about the incidence of activism, its track record of achieving change in target firms, and activists' performance. Our paper is the first to try to provide this evidence; we do so in four stages. First, we document the incidence and characteristics of public activism across 23 countries in Asia, Europe, and North America. Second, we provide a comprehensive analysis of activist engagements' performance internationally, using common definitions and methodology. Third, we analyse how successful activists have been in achieving specific outcomes during the engagements with target firms, and how those outcomes differ across countries. Finally, we investigate how the target's share price performance depends on the specific outcomes achieved.

We analyse in total 1740 activist interventions, mainly initiated by hedge funds and focus funds, during the 2000-2010 period. The three largest markets for shareholder activism are the U.S. with 1125 interventions, Japan (184), and the U.K. (165). Combined, these three represent 85% of all public interventions. Despite this apparent concentration, activism is a widespread phenomenon and has effectively replaced hostile takeovers as an important disciplining device in the large majority of countries in our sample. While this is known for countries such as the U.S., we find that activism is also frequent in countries including France, Germany, Italy and South Korea; countries not usually associated with active markets for corporate control. We also find that while activist engagements are frequent in many markets, success differs significantly across countries.

In most countries, we document a steady rise in activist interventions during the sample period until 2007, and a sharp subsequent drop in 2008-2010, the years of the post-Lehman financial crisis. Our sample covers 330 different activists. There are four funds that have at least forty interventions, Steel Partners, Carl Icahn, Value Act Capital Partners, and Ramius, all of which are U.S.-based; those four funds account for 14 percent of the total. Most funds have a clear domestic focus, but foreign engagements account for 24 percent of the total and, as we show later, have significantly different performance from domestic activism. Our international dataset allows us to benchmark the performance of U.S. activists at home against their performance overseas, and against their foreign peers, who themselves engage both domestic and foreign targets. Another

important characteristic of our data is that some engagements involve more than one hedge fund, often described as a 'wolf pack'. We estimate that wolf packs account for roughly one fifth of all engagements and show that they achieve some of the highest returns for target shareholders.

How do activist engagements perform? We know a significant amount about this from prior studies for the U.S., with some additional evidence for the U.K., Japan and Germany. The conventional measure of activists' performance is abnormal returns around the public announcement of the activist's stake.

We find abnormal announcement returns of 7% for the U.S. during a (-20, 20) day window, which are similar to those reported by Brav, Jiang, Partnoy, and Thomas (2008), Klein and Zur (2008), Clifford (2008), and Greenwood and Schor (2009). The European and Asian announcement returns are significant at 6.4% and 4.8%, respectively, comparable to the U.S., but larger than those previously reported for the U.K. (Becht et al. (2009)), Germany (Bessler, Drobetz and Holler (2013)) and Japan (Hamao, Kutsuna and Matos (2011).

How successful are activists in their engagements with target firms? For this analysis, we identify the outcomes of each engagement, including changes to payout policy, governance, corporate restructuring and takeovers. Compiling data on activist outcomes internationally is particularly challenging; while activists engaging U.S. listed firms need to provide information on the stated purpose of their investment in Schedule 13D filings, no equivalent exists elsewhere. Through extensive news searches, we identify any outcomes of the engagements. In high-profile cases like the engagement of Deutsche Börse AG by TCI the link between the outcome and the activist engagement is self-evident. In other cases we cannot establish the initial investment goals of the activist, but can only observe outcomes of the engagement when made public.

For the entire sample, the unconditional probability of an activist being successful in achieving at least one engagement outcome is 53 percent. However, the incidence of outcomes varies considerably across countries. For example, for North American targets, activists achieve outcomes in 61 percent of all engagements, 50 percent in Europe, and 18 percent in Asia. It is hence surprising that the disclosure returns are so similar across regions. We show that both the incidence of outcomes as well as the type of outcome dramatically affects the abnormal returns over the entire holding period of the activist from block disclosure to exit.

The announcement of outcomes contributes significantly to holding period returns during the engagement. Abnormal returns around the announcement of outcomes average 6.4 percent across all countries during a (-20, 20) window, with the highest returns of 8.8 percent in Europe, 6.0 percent in North America and 2.7 percent in Asia. These returns are in addition to the block disclosure returns for the subsample of engagements with outcomes. Abnormal returns vary

considerably across types of outcome, for example, takeovers provide abnormal returns averaging 9.7 percent, while other forms of restructuring average 5.6 percent. Changes to boards have returns of 4.5 percent and payout changes have returns of -0.2 percent only. To investigate the potential importance of governance changes initiated by the activist, we test whether engagements with multiple outcomes, for example a board change or spin off followed by a takeover, has a higher total return than a single outcome such as a takeover. If multiple outcomes offer higher returns than single outcomes this would suggest that governance changes prior to takeover improve the profitability of the engagement. We compare returns to engagements where there are multiple types of outcome, with single events. The differences are striking, in particular, engagements with multiple outcomes that involve a takeover have abnormal returns of 18.1 percent, whereas those engagements with only one outcome of a takeover have abnormal returns of roughly half that size (9 percent).

In the absence of publicly observable outcomes, we expect the stock price reaction to the announcement of an activist engagement to reverse itself when it has become clear that the market no longer expects the activist to achieve an outcome. To test this, we compare abnormal returns from the first disclosure date of the engagement by the activist to its disclosed exit for two subsamples of engagements, with and without outcomes, using portfolio abnormal returns calculated in calendar time.

On an annualized basis using a Fama-French four factor model, activism with outcomes generates value-weighted abnormal returns over the engagement period of 8.0 percent, compared with 2.3 percent for activism without outcomes. When returns are equal-weighted, activism with outcomes generates annualized abnormal returns of just 1.1 percent, compared with minus 9.8 percent without. Activism therefore generates positive alpha on average in large firms, but in all engagements the returns crucially depend on the activist achieving outcomes. The differences are economically significant, although not always statistically significant. Our interpretation is that the achievement of outcomes resolves the uncertainty at the block disclosure date about the activist's chances of success.

Results by region confirm that outcomes are always crucial for generating positive abnormal returns. For example, value-weighted annualized abnormal returns using a Fama-French four factor model in Asia are 13.2 percent with outcomes, compared with 0.6 percent without outcomes. The results for Europe are 8.1 percent with outcomes and 3.2 percent without, and in North America engagements generate 6.6 percent with outcomes, and minus 1.2 percent without.

Our evidence so far indicates that shareholder activism is successful in creating shareholder value across countries. While the probability for achieving such outcomes is highly variable across countries, and the value of an outcome depends significantly on its exact nature, the business model of activist shareholders appears to be remarkably similar internationally. One question therefore is whether our international sample is effectively capturing U.S.-style activism only. To explore this issue we distinguish between U.S. activists and non-U.S. activists, and the way they perform domestically versus internationally. We find that domestic activism generates higher performance, and targets smaller firms, with larger stakes. This applies both to U.S. and non U.S. activists. While U.S. activists acting domestically have the highest probabilities of achieving outcomes this advantage does not carry over to their foreign engagements. Instead, U.S. activists targeting foreign firms exhibit no difference in the probability of achieving outcomes than domestic activists operating in the same market.

Wolf packs are an important characteristic of engagements across countries. Since we can only observe activist stakes that are either above the specific regulatory threshold or which voluntarily disclosed, our estimate of the incidence of wolf pack engagements is conservative. Wolf packs invest in similar size target firms to engagements involving a single fund only, but control in aggregate larger ownership stakes and have significantly greater disclosure returns, 14 percent versus 6 percent. This reflects the much higher expectation of generating an outcome, 78 versus 46 percent.

How do these results compare to prior research? In Asia, Hamao, Kutsuna and Matos (2011) report abnormal long-term returns equivalent to 12 percent annualized from entry to exit for domestic and foreign shareholder activism in Japan. We extend this by showing that positive abnormal performance only obtains for deals with outcomes, which are generally rare in Asia. For Europe the evidence is limited.[1] For North America, the two most closely related papers are Brav, Jiang, Partnoy, and Thomas (2008), and Greenwood and Schor (2009), who analyse domestic U.S. activism. Brav et al. (2008) provide evidence that U.S. activist engagements have higher block disclosure returns when the activist is successful in achieving its stated objectives[2]. We extend this by quantifying the contribution that disclosure returns and outcome returns make to the overall long-term performance of the activist. We also show that the performance of U.S. activists engaging

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[1] In the U.K., Becht et al. (2008) report significant abnormal long-term returns equivalent to 10.3 percent annualized using Fama-French four factor alpha, but their analysis is based on a small sample of 41 mostly private engagements by a single activist. In Germany, Bessler, Drobetz and Holler report insignificant abnormal returns equivalent to 6.7 percent annualized using Fama-French four factor alpha for a sample of 231 engagements, but these returns are for fixed-length 36 months windows, and the sample inclusion criteria differ from ours.
[2] In a recent paper, Bebchuk, Brav and Jiang (2013) analyze U.S. targets and find no support for the claim that activism has negative long-term effects on target performance. See also Klein and Zur (2008).

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domestic target firms is significantly higher than their performance abroad. Greenwood and Schor (2009) examine outcomes in the 18 months following activist engagements and in particular the incidence of takeovers. They conclude that for the U.S. at least, 'hedge funds invest in small, undervalued companies with the ultimate goal of seeing those targets bought out […] it follows that the activists are less interested in making corporate governance changes that might improve the firm'. Our results instead show that a significant proportion of activist exits via takeovers also involve *other* governance outcomes during the engagement. We compare the performance of activist engagements which include multiple outcomes with single-event takeover engagements and find that the former perform significantly better, on average. Further, we show that activists are successful in creating shareholder value even in scenarios that do *not* involve a takeover, such as restructurings and changes to payout policy. These results suggest a more significant role for shareholder activists in value-creating governance changes, than that suggested by Greenwood and Schor.

Our results make several contributions to the literature. To our knowledge, we are the first to document the prevalence, performance and specific outcomes of activist engagements for a large cross-section of countries. We base our analysis on a standardized set of engagements and engagement outcomes that allows us to perform tests across jurisdictions.

Second, we extend prior work by Clifford (2008), Klein and Zur (2008), Gantchev (2013), Bebchuk, Brav, Jiang (2014) and particularly Brav et al. (2008), and Greenwood and Schor (2009), who analyse the short-term and long-term performance of U.S. target firms. We show that activism outside the U.S. similarly depends on the activist achieving outcomes. We also find that not all types of activism are equally beneficial. Activist engagements appear to create only modest or no shareholder value when the activist achieves changes in the board structure or the payout policy of target firms without other accompanying outcomes, such as a restructuring. Instead, activist engagements that focus on restructuring, particularly via takeovers, or multiple outcomes, generate significant value for shareholders. This result extends and modifies the evidence in Greenwood and Schor (2009), who argue that a takeover represents the most attractive exit option for an activist.

Third, we use our international dataset to benchmark domestic against foreign activism, and U.S. activists against their foreign peers. Our findings complement the prior literature focusing on the role of institutional investors and specifically foreign institutional investors for shareholder value (e.g. Gillan and Starks (2003), Ferreira and Matos (2008), Leuz, Lins, and Warnock (2009), and Aggarwal et al. (2011)). Our results suggest that while foreign institutions' investments tend to be credited with generating relatively larger benefits for minority shareholders, this advantage does not appear to carry over to hedge fund activism.

Fourth, we provide the first comprehensive evidence of hedge fund wolf packs internationally. Wolf pack engagements are significantly more profitable than stand-alone engagements, and have higher probabilities of achieving outcomes. Wolf pack activists' success appears to not only derive from larger stakes in target firms, but also greater influence on other parties.

The remainder of the paper is structured as follows. Section 2 discusses the related literature on shareholder activism and describes the differences in legal rules that shape activism across countries. In Section 3, we describe our data and summary statistics, while Section 4 lays out our methodology and hypotheses. Section 5 provides our findings and robustness tests. Section 6 concludes.

II. International Activism

A. Prior empirical literature

The early empirical literature on investor activism is focused on shareholder proposals at shareholder meetings in the United States. This research found little evidence linking this type of shareholder activism and corporate performance (Wahal 1996, Karpoff 2001, Gillan and Starks 2007). Shareholder proposals in these studies usually failed to achieve a majority of votes or were advisory only and ignored by the board of directors. Not surprisingly the proposals achieved low or zero shareholder returns. [3] Shareholder proposals in Europe have been studied by Cziraki, Renneboog and Szilagyi (2010); they are rare and mostly fail to receive a majority of votes. As a result, their impact is low with abnormal returns of -2 percent on average. Shareholder proposals in Japan are more common than in Europe. Hamao, Kutsuna and Matos (2011) document 916 activist events involving 670 "significant proposals", as defined by Japanese disclosure rules. Of 234 proposals 87 relate to changes in capital structure, but the majority, 62 percent, do not pass. For South Korea, activism through shareholder proposals has been associated with a non-governmental organisation, the People's Solidarity for Participatory Democracy (PSPD). PSPD filed 11 governance related proposals between 1996-2000, with a 45% success rate (Choi and Cho (2003)).

The use of engagement procedures with potentially higher impact such as a proxy vote is significantly more expensive than filing a shareholder proposal. Due to differences in fee structure, these more expensive tactics are largely confined to hedge fund activists. The average management fee for activist funds for the period under review is 2% plus an incentive fee of 20% of the excess

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[3] See Del Guercio and Hawkins (1999), Davis and Useem (2002), Gillan and Starks (2007), Ertimur, Ferri, and Stubben (2010), and Renneboog and Szilagyi (2010).

returns above a high-water mark. Gantchev (2013) estimates that the average U.S. public activist campaign that involves a proxy fight costs $10.5 million and accounts for about two thirds of his estimated gross abnormal returns. Our data, collected from client reports for a sample of U.S. activists, suggest somewhat lower estimates. For example, Pershing Square states that its high profile proxy fight with the U.S. retailer Target cost approximately $3.3m. Georgeson, a proxy advisory firm, estimates that the cost of the average campaign is between $250,000 and $1,000,000 in the U.S. and $200,000 in Japan.

Activist specialists frequently hold relatively few positions that are however often large in value. They hold as few as 10 to 30 stocks at any one time. Some are even more specialised, for example Knight Vinke, a European activist fund, held as few as four stocks, while the Hermes U.K. Focus Fund invested in an average of 13 stocks. This is in stark contrast to most other institutional investors who typically own equity portfolios containing hundreds or thousands of stocks.

More recent hedge fund activism in the United States is investigated by Brav et al. (2008) and Klein and Zur (2008). Brav et al. examine 882 interventions by activist hedge funds. Shares in the target companies significantly outperform the market over various time frames around the block disclosure date. Greenwood and Schor (2009) also document significant abnormal returns for activist targets, but attribute these returns to the activist's ability to force firms into takeover transactions. For Japan, Hamao, Kutsuna and Matos (2010) analyse a large sample of activist events, composed primarily of engagements through the submission of shareholder proposals, and find insignificant long run returns. Kruse and Suzuki (2009) examine the returns to one activist, Y. Murakami's and several of his aggressive activist funds. They find large positive abnormal returns for target firms in the two years following engagement.[4]

These results suggest that hedge fund activism often generates returns for shareholders. At least some of these gains may be at the expense of other investors. Klein and Zur (2009) examine the potential wealth transfers from bondholders to shareholders, from forcing higher cash-payouts or increasing the risk profile of the target companies. They find an average abnormal loss to bondholders of -3.9% around the initial 13D filing and a loss of -6.4% over the subsequent year.[5]

The studies of public activism do not capture activism that is conducted "behind closed doors". Such private activism has been documented by Carleton, Nelson and Weisbach (1998) for

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[4] To some critics, activist funds have much in common with the corporate raiders of the 1980s in the U.S. and 1990s in Europe, expropriating private benefits at the expense of other shareholders and bondholders (see Holderness and Sheehan (1985), Croci (2007) and Klein and Zur (2009)). A number of 1980s raiders, such as Carl Icahn and Nelson Peltz, have resurfaced as activist hedge fund managers in the U.S. and Europe.

[5] Wealth transfers between bondholders and shareholders have been studied elsewhere in the context of mergers and acquisitions (Billett, King, and Mauer (2004)), spinoffs (Maxwell and Rao (2003)) and shifts in payout policy (Dhillon and Johnson (1994)) with similar results.

the U.S. and for a U.K. hedge fund by Becht et al. (2009). Both papers examine the private engagements of one fund only. Carleton et al. examine 45 private engagements, and find that in 95% of the cases TIAA-CREF was able to successfully negotiate a settlement of the outstanding governance issue. The share price impact for the successful negotiated settlements is small and positive although there are losses on stocks where the engagement is unsuccessful (the losses roughly equal the gains). Becht et al. examine 30 engagements of the Hermes U.K. Focus Fund. The fund was successful in achieving outcomes and produced significant abnormal returns. The fund never filed a shareholder proposal. The fund's performance deteriorated sharply during the financial crisis leading to the restructuring of the fund.

B. Activism and outcomes across jurisdictions

In this section we discuss the activist investment process and how activist actions map into outcomes in different countries. Differences in laws, rules and institutions affect the strategies hedge fund activists employ when they intervene in a company. The factors that may promote or obstruct activist actions are taken into account before a hedge fund will invest in a target. Hence, the disclosure of a stake signals that the fund believes that it has a sufficient number of levers at its disposal to succeed with its intervention.

Some jurisdictions are friendlier to activists than others. Becht et al. (2009) and Becht, Grant and Franks (2014) provide evidence that hedge fund activists will refrain from engaging if their due diligence process reveals insurmountable legal or practical obstacles at the country or company level. Knowledge of the composition of the shareholder base and the willingness of other shareholders to work with the activists is at least as important, and often more important, than the legal rules that might prevent the activists from putting pressure on the target. Hedge fund activists employ lawyers, proxy advisers, proxy solicitors, other consultants as well as native speakers, for a custom made engagement strategy for each company and country.

Country differences exist with respect to the legal rights of shareholders to call an extraordinary general meeting (EGM), the ease of proxy solicitation, and the ease with which shareholders may submit proposals to be voted on by the shareholder assembly. For example, in the U.K. and Japan only 5% and 3%, respectively, of shareholders are required to call an EGM, whereas in the U.S. (Delaware) only directors can call an EGM unless that right is given explicitly to shareholders in the company's articles of association. In most jurisdictions shareholders have a right to access the shareholder register facilitating a proxy contest; the exception is Germany where shareholders can only access their own information. In relation to shareholder proposals, they are binding in most countries with the exception of the U.S. where they are advisory only.

Board appointment and removal rights also differ. For example, in Italy, minorities can appoint their own director via proportional (plurality) voting. In Sweden, a firm's four largest shareholders can form a nominations committee for board members and any shareholder can nominate board candidates prior to the AGM. In the U.S., up until 2010, the incumbent board nominated all directors (with the exception of hostile proxy contests) and shareholders could only vote for the board's candidates or withhold their vote. In most European countries, including the U.K. and France, a simple majority of shareholders voting can dismiss directors without cause. In the U.S. as in Germany, directors can only be dismissed with cause, although such a proposal requires a 75% majority of those voting.

In conclusion, it seems that activists adapt country specific strategies – threaten proxy contests in the US, but engage in behind-the-scenes negotiations in the UK and exert influence through board nomination committees in Sweden. Ceteris Paribus, the skill with which these country specific mechanisms are utilised, and the recognition of their limitations determines the success of the activist engagement.

C. Case Studies

To provide greater insight we link the disclosure of activist stakes to actions and outcomes in different countries by providing a series of case studies from our data set. The case studies illustrate three main points; how the activist intervention can be linked directly to observable outcomes and consequent changes in firm value, how activist engagements follow certain identifiable patterns across countries and engagements, and the influence of local culture and institutions.

U.K.

The U.K. is among the most shareholder activist friendly countries in the world (Black and Coffee 2004). Shareholder can easily requisition an extraordinary general meeting (EGM) and put forward binding resolutions that need majority approval to pass. As Becht et al. (2009) show, the threat of an EGM is usually sufficient to facilitate a negotiated outcome in the U.K. However, activists are willing to call EGMs to achieve their objectives when necessary. This is illustrated by the case of *F&C Asset Management,* one of the U.K.'s largest asset managers. In 2010 Sherborne, a U.K. domestic activist fund, requisitioned an EGM to restructure the board of F&C, so as to radically alter the strategy of the company. The vote resulted in the removal of F&C's chairman and another director, and the appointment of three of Sherborne's nominees, including their chairman. [6] Sherborne held 18% of F&C prior to the vote and received 70% support in favour of their

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[6] Usually the threat of an EGM is sufficient to force a board change (see Becht et al (2009)), but in this case the board believed that it could win the EGM vote.

proposals. Ten institutional investors held stakes in F&C in excess of 3%, accounting for about 48% of the outstanding shares. The company was subsequently acquired at a substantial premium in 2013. The takeover was facilitated by the board changes initiated by the activist.

Germany

The German corporate governance system relies to a large extent on delegation from the shareholders to a supervisory board of non-executive directors. Shareholders have strong board election rights, but do not vote on many other corporate decisions. Like the U.S., hedge fund activism uses board elections as its main level of influence to affect change. Shareholders in German corporations can call an EGM and precipitate board elections with 5% of the shares, providing the shares have been held for a period of at least three months, similar to the U.K. However, the solicitation of proxies by shareholders calling the EGM is complicated by the use of bearer shares in Germany which permit anonymity, and even then share registers are not public documents. Like the U.K., the threat of a contested board election can be so strong that board changes are triggered without a hostile vote.

This is illustrated by the case of *Deutsche Börse AG (DB)*, which changed its entire supervisory board as a result of a landmark activist intervention. In 2004-2005 *Deutsche Börse* expressed an intention to acquire The London Stock Exchange, and accumulated a considerable amount of cash for this purpose. By 2005, German-based investors owned less than 1% of the shares in DB with the majority of shares owned by UK and US investors, and board control had become contestable. The U.K.-based activist fund TCI expressed opposition to the acquisition. TCI wished DB to drop the bid and distribute the cash to shareholders. The supervisory board of DB refused to agree to a shareholders meeting or drop the bid. TCI had by then accumulated a 5% stake and was in a position to call an EGM to remove the directors of the supervisory board. When several foreign institutional investors, including Fidelity and the Capital Group, declared their support for TCI it became clear that the foreign activist coalition had a majority of the votes and the ability to replace the board. The CEO of DB resigned and the entire board was replaced at the next ordinary shareholders meeting. The bid was withdrawn and the cash distributed to shareholders.

Sweden

Like in the U.K., U.S. and Germany, in Sweden board elections are the main lever of activist power. However, this influence does not derive from the threat of a hostile proxy solicitation or requisitioning an extraordinary meeting but operates through a nominations committee. The Swedish Corporate Governance Code requires that listed companies should have an external nomination committee composed of shareholders who propose candidates for the board including

the chairman. Representatives of the four largest shareholders in the company are usually appointed to the committee. Our sample contains seven board related interventions in Sweden. In all cases, activists joined the nominations committee and succeeded in appointing directors sympathetic to their goals. In all these cases the observed outcomes are the direct consequence of the activist intervention. Plurality voting is used, where the candidate with the largest number of votes is elected, in contrast to majority voting in the U.K.

An illustrative example is *Lindex AB* a leading Swedish retail clothing chain. It was identified as a target by Cevian Capital, a domestic Swedish activist fund. It viewed Lindex as an attractive restructuring candidate, as it traded at a 'depressed valuation' in 2003 due to an unsuccessful expansion in Germany. In October 2003, Cevian acquired a 16% block holding, making it the largest shareholder; other investors were mostly institutional investors with small stakes. Cevian was a member of the board nominations committee and therefore could influence board appointments without the need to call a shareholders meeting. Its founder Christer Gardell, was appointed as Chairman of Lindex and another manager of Cevian served as a non-executive director. The nominations committee also recruited four new board members and a CEO.

The case illustrates the importance of the nominations committee, making the process of replacement less confrontational and faster. However, the general impact of hedge fund activists is affected by the presence of controlling shareholders with differential voting rights in many listed companies. In these cases activists can only succeed when working with the controlling shareholders, which is possible but only observable through access to private fund information (see Becht, Franks and Grant 2015).

Japan

In theory, shareholder rights are stronger in Japan than in Europe and the US. 3% of outstanding shares with voting rights held for at least 6 months are required to requisition an EGM. Just 1% of outstanding shares are sufficient to propose a shareholder resolution at the AGM. If passed, the resolution is binding on the firm. All shareholders have the right to inspect the shareholder register upon request. However, "poison pill" defences were introduced in 2006, and over 80% of annual shareholder meetings in Japan are organized on the same day, creating practical barriers to shareholder voting.[7]

An illustrative example is *NEC Electronics* (NECE), based on based on Foley, Greenwood and Quinn (2008). NECE was the listed semi-conductor manufacturing subsidiary of the Japanese electronics conglomerate NEC, which held over 70% of the subsidiary. In late 2005 Perry Capital, a

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[7] The reason given for this scheduling is to prevent the Japanese mafia (Yakuza) from disrupting AGMs (Ladipo, 2003).

foreign hedge fund accumulated a 4.7% position in NECE. Prior to the investment, the activist analysed the firm's divisions, met with NECE's senior management on multiple occasions, and was encouraged to believe that restructuring of the communications division was imminent. One year after the investment NECE's share price had fallen and the restructuring was blocked by NEC, which had entered strategic discussions on merging its subsidiary with Toshiba in 2006.

Frustrated with this failure, Perry wrote to NECE's senior management, outlining a restructuring plan including reducing expenditure and eventually exiting the communications division. The letter was released to the press and carried in the English language media, triggering a 10.6% abnormal return. Perry's communication with the firm also stated that there were multiple potential acquirers for NECE. Perry failed to secure meetings with senior management at NEC, who blocked the restructuring and instead campaigned for their own strategic plans with Japanese investors. "While many investors were privately sympathetic to Perry Capital's plans for NECE, none were willing to help in a meaningful way …. many investors were being careful not to offend NEC" (page 4: Foley, Greenwood and Quinn (2008)).

In July 2007, Perry made an offer to purchase 25 percent of NEC's stake in NECE at a 65% premium. The deal was rejected by NEC and Perry was unable to secure meetings with NEC's senior management. In response, the fund increased its position in NECE to 6% and acquired a position in parent NEC of under 5%. It then undertook a wide-scale lobbying effort, arranging over 250 meetings with Japanese financial and government institutions over the next year. However, Perry was forced to divest both positions as the financial crisis worsened with the collapse of Lehman Brothers in September 2008. By this point the share price had declined from a high of Yen 2,895 in August 2008, to Yen 975 at the end of October. The cumulative abnormal return to the fund on its investment in NECE calculated on public information was minus 38%.

III. Data Description

We compile a database of public targets of activism covering Asia, Europe and North America. It includes all interventions initiated between January 2000 and December 2010. We also had access to the databases compiled by Brav et al. (2008) for the U.S., covering the period and 2001-2006.[8] In addition we collect data on the outcomes of the engagements, in particular on takeovers, other types of corporate restructuring, board changes and changes in payout policy.

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[8] There are a considerable number of cases in Brav et al. that are not in our database and vice versa. We examine the first 80 cases alphabetically from a combination of Brav et al. and our sample and find that in 27 cases there is overlap in the two data bases; 19 cases are in our sample but not in Brav et al, 34 cases are in Brav et al. but not in our sample. Reasons for non-overlapping samples appear to be differences in exclusion criteria and search techniques.

The data have been collected from various sources. In all jurisdictions regulation requires shareholders to disclose a position when stakes reach a threshold of between 1% to 5% of capital and/or voting rights, depending upon the country and the type of security. For the United States our primary source is the *13D Monitor* database, which itself is based on SEC filings. It records entry and exit dates of activists based on a 5% threshold disclosure.

In Europe and Asia we use centralized country regulatory filings where available.[9] For countries where regulatory filings are not released by a central agency, such as in the U.K., we rely on Factiva for press articles and regulatory filings. For all three regions, we search with a set of keywords that produces a large number of activist interventions. The names of the target company and the funds involved were recorded and the case list was extended by searching for the fund names.[10] Press articles featuring high profile cases often include references to other interventions undertaken by the same fund. We also use hedge fund client reports to complete the list of targets. For outcomes we rely on news reports from Factiva.

In the sample of 1740 engagements, the U.S. has 1125 interventions, Japan 184 and the U.K. 165 (Panels A and B of Table 1). Combined, these three countries represent 85% of all public interventions. There are six other countries with at least twenty interventions including Canada, France, Germany, Italy, South Korea and The Netherlands. Table 1 shows the annual number of public engagements initiated between 1 January 2000 and 31 December 2010. There is a steady rise until 2007 and a sharp subsequent drop in 2008-2010, the years of the post-Lehman financial crisis. Panel C of Table 1 lists funds that have ten interventions or more. No one fund dominates the sample. There are four funds that have at least forty interventions, with Steel Partners having the largest number of interventions at 92. Most funds have a clear geographic specialization. The most "global" fund is TCI with engagements in all regions. Steel Partners engage in Asia, the United States and the U.K., but not in Continental Europe.

Panel D separates engagements by activist clienteles, into four categories. As the table shows, most engagements are purely domestic, but foreign engagements account for 24 percent of the total In non-U.S. domestic engagements, non-U.S. activists engage target firms in their respective home countries. These engagements, which are most frequent in the U.K., Japan and

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[9] There is no centralized database of block disclosure in Europe comparable to the SEC's Edgar database in the United States. Also, prior to 2007 there was no standardized form in Europe similar to 13D. Disclosure thresholds are 2% in Italy, 3% in the United Kingdom and 5% in the other countries in our sample. Equally, there is no EU-wide fund disclosure document comparable to the U.S. SEC's Form 13F for reporting the size of portfolio holdings of the fund. A feature of the U.S. 13D is that the purchaser must state the intention of the purchase whereas in Europe this is not the case. Similar thresholds apply in Hong Kong, Japan and Korea.

[10] Press articles focusing on the more important cases would review other intervention undertaken by the funds involved. These cases were duly noted as well and a separate search performed.

South Korea, constitute 12 percent of the total. U.S. domestic engagements with 64 percent are the main type of activism in our sample. Non-U.S. activists engaging foreign firms and U.S. activists engaging non-U.S.-firms represent 12 percent and 13 percent of the sample, respectively. When investing abroad, both non-U.S. and U.S. activists target firms most frequently in Japan, Germany and the U.K.

As Panel E shows, another important characteristic of our data is that some engagements involve more than one hedge fund, often referred to as a "wolf pack". Due to such multiple engagements our sample contains 1,534 unique target companies that are involved in 1,740 engagements. In 22 percent of our engagements there are at least two hedge funds engaging with the target firm during the same engagement. Among these engagements, 77 percent involve two hedge funds, while 23 percent involve three or more. Since we can only observe activist stakes that either are above the specific regulatory threshold or are voluntarily disclosed, our estimate of the incidence of wolf pack engagements is very conservative. Hedge funds that join the activists leading the engagement may control smaller stakes that do not breach regulatory thresholds and may therefore not be disclosed.

To illustrate wolf pack engagements, consider the case of Deutsche Boerse, discussed earlier in Section B. Atticus Capital disclosed a stake of 5 percent in Deutsche Boerse in August 2004, it was joined by TCI with an 8 percent stake in January 2005. Both activists joined forces and, among other goals achieved, replaced the CEO of Deutsche Boerse in 2005. Both funds exited in March 2009.

Figure 1 provides a time-series of overall activist engagement activity, broken down by new engagements, exits, and outstanding engagements (i.e. the stock). The onset of the financial crisis in the third quarter of 2007 coincides almost perfectly with a strong decline in activist activity. This decline is due to a reduction in new engagements rather than an increase in exits.

Table 2 reports holding periods and exits. Of the total of 1740, 1270 engagements have concluded as of 31 December 2010, the end of our sample period; for all other engagements the activist has not exited or has not reported an exit. The largest number of engagements is initiated between 2004-2008, with a peak in 2007. The largest number of exits is recorded in the period 2006-2009, with the peak in 2007/2008 and a drop-off in 2009 and 2010 (see Figure 1).

The last two columns of Table 2, Panel A show the average holding period for engagements and the number of engagements without exit. Panel B breaks down exits by holding period of the activist. As one would expect, for younger cohorts both the holding periods are shorter and the number of engagements without exit are lower, because a higher percentage of engagements are

still ongoing. The average holding period is 1.7 years, or 624 days, long and out of 1740 engagements, 470 have no exit by December 2010.

Table 3 reports the total number of outcomes per year. The impact of the financial crisis is clearly visible, with the total number of outcomes dropping from 212 in 2007 to 115 in 2008 and further to 49 in 2009. The fall also persists as a proportion of the [reduced] level of outstanding engagements. The decline is spread unevenly across types of outcomes: the number of board outcomes continues to be relatively high while the number of takeovers, associated with activists, drops by 53% between 2007 and 2008 and a further 31% in the subsequent year.

The level of activism activity appears significant as a mechanism for changing corporate governance. Table 4 shows activist activity as engagements per year, and as engagements per 1,000 listed firms, and compares this to unsolicited takeover bids. Over the period 2000-2010, per year there are roughly 20 engagements in Asia, 35 engagements in Europe, and 100 engagements in North America. The number of activist cases in all regions far exceeds the number of unsolicited or what might be described as hostile bids. In Asia activist engagements exceed hostile bids by 7 times (19.8/2.8), in North America by 2.6 times (104.1/40.1), and in Europe by 1.7 times (34.6/20.5). Similar results obtain when we use scaling per 1,000 listed firms instead of per year. A break-down by country, for sample countries with at least 5 activist engagements during the sample period, confirms this result. In 13 out of 16 countries, activism is more frequent than hostile takeovers.

IV. Methodology and Tests

Most of the methodology and tests in this section relate to how we measure the performance of hedge fund activism. A key issue in our analysis is the link between activism and shareholder returns via outcomes achieved by activists across countries.[11]

We investigate three issues: First, what are the abnormal returns around the disclosure of activist stakes? Second, what are the abnormal returns around the disclosure of outcomes and how do these abnormal returns vary across different types of outcomes, such as takeovers, other forms of restructuring, changes to the target company's board, and changes in payout? Third, what are the long-term abnormal returns to activism, and do they depend on outcomes?

Figure 2 describes the timeline of a stylized activist engagement from entry (1) to exit (5). Entry is assumed to coincide with the disclosure date of purchase (3, e.g. a press report or regulatory filing) to a subsequent report of a stake either being sold or falling below the regulatory

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[11] Our methodology does not allow us to identify the potential treatment effect of shareholder activism when compared to other types of corporate governance interventions, as this would require the inclusion of countries and companies that have not experienced an activist intervention.

threshold (4). The activist engagement will typically have started prior to the initial disclosure, as the activist accumulates a stake prior to the disclosure date and the activist may already hold discussions with target management. The period from entry (1) to exit (5) is the holding period. When there are outcomes reported during the holding period these are classified by type and recorded (3).

This study and comparable U.S. studies such as Brav et al. (2008) rely on public information. For example, the main data sources in Brav et al. (2008) are regulatory 13D filings that are triggered by the funds crossing a 5% voting interest threshold. Because of this, U.S. activism identified from 13D filings tends to be biased towards more confrontational engagements in which the funds hold a larger stake. What this study and other studies cannot capture is private activism, i.e. activism that is disclosed to the target firm but not to the wider public and because of smaller stakes is not subject to regulatory disclosure. We know from a separate analysis of proprietary data that private activism is comparable to public activism in its aims and success rates, although it is more profitable.[12]

A. Disclosure returns

To measure the disclosure returns from a public engagement we compute cumulative abnormal returns starting twenty days before the public disclosure on the basis that the stake will have been acquired over a period prior to the disclosure date and it is likely that there will be "run-up" effects (Schwert (1996)). To capture the full disclosure effect we also trace returns for twenty days after disclosure. Cumulative abnormal returns are obtained from country-specific market models.

B. Long term performance

We measure the long-term returns of activist engagements over the holding period of the activist, i.e. from the initial filing date or the first press disclosure date until the exit date. We construct activist portfolio returns in calendar time. The portfolio is rebalanced each month to include all firms in the month that are subject to an ongoing activist engagement. For each month from January 2000 to December 2010, we form equal- and value-weighted portfolios and drop all firms where activists have exited and add all firms that have newly been engaged by activists. The excess returns of this portfolio are regressed on the excess return of the market and the four Fama and French (1993) and Carhart (1997) mimicking portfolios. To illustrate, for the four factor model we regress

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[12] Becht, Franks and Grant (2014) rely on proprietary information from five European funds about all their private and public engagements during the period 1997-2008, including purchase dates, exit dates, engagement intention and outcomes. The sample contains 131 engagements, of which 53 are private engagements unreported in the press or regulatory proceedings.

$$R_{p,t} - R_{f,t} = \alpha_P + \beta_{P,RMRF}(R_{m,t} - R_{f,t}) + \beta_{P,SMB}SMB_t + \beta_{P,HML}HML_t + \beta_{P,MOM}MOM_t + \varepsilon_{P,t},$$

where *RMRF*, *SMB*, *HML*, and *MOM*, are the excess return of the market, the difference between a portfolio of small stocks and big stocks, the difference between a portfolio of high book-to-market and low book-to-market stocks, and the difference between a portfolio of high and low momentum stocks, respectively, and all based on U.S. stocks. α_P, or Alpha, is the estimate of monthly abnormal performance of the target portfolio.

C. Outcomes and performance

We analyse in two ways whether successful engagement outcomes matter for the overall performance of activist engagements. First, we measure announcement returns in response to observable activist outcomes, such as a board change in the target firm. For all such outcome events we perform event studies using (-20, 20) day event windows around the outcome announcement dates. In the case of multiple outcomes for a single engagement we sum up the returns over all outcomes. Second, we separate engagements by whether the activist achieves at least one outcome, or not, and analyse long-term performance of both subsamples separately. We further split the subsample of successful deals by their outcome type (board changes, changes to payout policy, restructuring through spin-offs or other divestitures, and takeovers), to see whether long-term performance of engagements depends on the type of outcome achieved by the activist. We might expect that where there are no observable outcomes from the engagement, the long-term performance during the entire holding period should be very close to zero or even negative. Successful outcomes however should lead to positive long-term performance, if the outcomes achieved by the activist meaningfully affect the value of the firm.

D. Wolf pack engagements

An important characteristic of our data is that some engagements involve more than one hedge fund, referred to as a wolf pack. We identify wolf packs by considering the time series of activist engagements in each firm in our sample and define an activist as being part of a wolf pack if the holding period from entry to exit overlaps with another activist's holding period. In 22 percent of our engagements there are at least two hedge funds engaging with the target firm during the same engagement. We observe wolf packs that include up to four activists. In a wolf pack engagement, hedge funds' investments in the target firm by definition overlap in time. We address this overlap in two ways. First, where we analyse data at the level of the individual hedge fund, we attribute any

outcome achieved by a wolf pack to all activists that are engaged at that time. By doing so we capture the potential share price reaction of the target firm in response to an outcome for all wolf pack members, even if press statements attribute that outcome to one hedge fund only. Second, where we analyse data at the level of an activist engagement, we treat the entire wolf pack as one engagement and consider any achieved outcome only once, avoiding the double counting of outcomes.

V. Results

In this section we describe our results. We report abnormal returns around the block disclosure date, around the outcomes of engagements, and around the exits of activists. We examine how these returns differ depending on whether the activist is a domestic or foreign investors, and we investigate the performance of activist wolf packs. We then analyse the long-term abnormal returns for the entire holding period from entry of the activist to exit, comparing different samples, with and without outcomes. Finally, in a multivariate regression we re-examine the cross-country determinants of activism outcomes.

A. Returns from activist engagement announcements

We begin by analysing the performance of activist engagements at the disclosure date across all jurisdictions. Table 5 reports the abnormal returns around the disclosure date for two event windows, 21 days and 41 days (1617 out of 1740 engagement disclosures have sufficient data available). Panel A reports the abnormal returns around block disclosures. For the (-20, 20) window, average abnormal returns are 6.4% for the aggregate sample, significantly different from zero at the 1% level.

There is some variation across the three regions. For the same window, North America has the highest disclosure returns at 7.0 percent, followed by Asia at 6.4 percent and Europe at 4.8 percent. North American abnormal returns are lower than in Brav et al. (2008), who report abnormal returns of 8.4% for the same 41-day window in the U.S., but their results are based upon a shorter sample period from 2001 to 2006, and do not include the period of the financial crisis. Block disclosure returns diminish over time. For example, in the U.S. block disclosure returns over the period 2000-2005 average 10.5 percent, over the period 2006-2010 they are much lower at 5.8 percent. As Figure 3 shows, there is some post-disclosure drift in abnormal returns in all three regions. The figure also shows the large abnormal share turnover (calculated relative to average turnover prior to the event window) around the activist engagement disclosure event. Share turnover increases by more than 80 percent over normal turnover during the event period.

Panel B of Table 5 shows the time series of disclosure returns for the full sample and by region. Disclosure returns are on average higher during the early 2000s than during the late 2000s, but variation between years is significant. The year with the overall lowest disclosure returns is 2007, the onset of the financial crisis, coinciding with lower expectations of successful outcomes, as we show below.

These abnormal returns around the disclosure of activist engagements should reflect the probability and potential profitability of outcomes from the engagement. We would expect engagements with realized outcomes to be associated with additional post-disclosure abnormal returns, and those engagements without outcomes to be associated with losses, with an average of zero across all engagements.

B. Disclosure returns around outcomes

We next analyse the cumulative abnormal returns around the disclosure of observable outcomes of engagements. We include an outcome only if it is included in the stated objectives of the activist as described in the regulatory filing or news flow. Outcomes are categorized as "Board" (replacement of the CEO, CFO, Chairman or Non-Executive Directors), "Payout" (share buybacks or increased/special dividends) and corporate restructuring. We separate restructurings into "Takeover" (the target firm is acquired by a strategic buyer or private equity fund), and "Restructuring" (divestitures and spin-offs of non-core assets, and the blocking of diversifying acquisitions).

Table 6 reports the abnormal returns for all outcomes, again for (-10,10) and (-20,20) event windows. Out of 1740 engagements 850 have at least one subsequent outcome and sufficient data to calculate abnormal returns. A significant number of engagements, 139 in total, achieve outcomes of more than one type. We split those further into those that, among other outcomes, include a takeover of the target ("Multiple+Takeover", 58 engagements), and those which do not ("Multiple+NoTakeover", 81 engagements).

The average abnormal return for all announced outcomes for the 41-day window is 6.4%, and is statistically significant at the 1% level (Panel A). The largest abnormal returns are generated by takeover transactions that also involve other outcomes, at 18.1 percent. The second largest abnormal returns are generated by pure-play takeover outcomes, at 9.7 percent. Engagements with multiple outcomes that do not include a takeover are also large at 9 percent. All other types of outcomes have smaller abnormal returns. Non-takeover restructuring, including divestitures and spin-offs, averages 5.6 percent. Payout is not distinguishable from zero at -0.2 percent. Board

changes generate moderate abnormal returns at 4.5 percent. These results show that successful engagements have much higher levels of returns than those shown at the disclosure date.

There are also interesting differences in outcomes returns across region, in Panel B. In Asia, there are very few engagements with outcomes and the outcome returns, except for two engagements with multiple outcomes, are small and for the (-20,20) window all returns are insignificant. In Europe outcomes are much more frequent and they have the highest average abnormal returns across the three regions with 8.8% for the (-20,20) window. Pure-play takeovers and takeovers involving other outcomes stand out with 10.8 percent and 25.1 percent, respectively. Restructuring outcomes have returns of 5.3 percent and engagements with multiple outcomes (but no takeover) have 10.3 percent. Returns to payout and board changes are not significant. In North America engagements have the highest probability of achieving outcomes. The average abnormal return is 6.0 percent and, like in Europe, pure-play takeovers and takeovers involving other outcomes stand out with positive returns of 9.5 and 16.2 percent. Restructuring outcomes, engagements with multiple outcomes (but no takeover), and board outcomes are also positive and significant, while payout outcomes are roughly zero.

Figure 4 shows the time-series of outcomes achieved for activist engagements during the sample period, aggregated per quarter. Consistent with the increase in ongoing engagements, the number of achieved outcomes increases strongly over time, from about 10 outcomes per quarter in 2000 and 2001, to around 80 outcomes per quarter in early 2007. As for total activist engagement activity, the number of outcomes achieved collapses with the onset of the financial crisis, particularly in takeover outcomes.

C. Disclosure returns around exits

Next, we consider the abnormal performance of target firms around hedge funds' exit announcement. Figure 5 and Table 7 shows the average cumulative abnormal target return around the exit announcement of activists. The event window is centered on the announcement of an exit. Average exit returns are positive at 0.6 percent, but are not significantly different from zero. Abnormal trading activity shows a spike around the exit announcement date. Further splitting exits into those where the activist achieved an outcome and those where there was no outcome (not shown) does not yield additional variation in exit returns. Overall, the exit by activists does not seem to convey significant information to the market.

D. Performance by type of activism

Our evidence so far indicates that shareholder activism is successful in creating shareholder value across countries. Similarities include: Activists generate positive abnormal returns if and only if they manage to achieve outcomes, and the value of achieving an outcome depends significantly on the exact nature of the change implemented by the activist. The business model of activist shareholders appears remarkably similar internationally. One question therefore is whether we are effectively capturing U.S.-style activism only, across countries.

To address this issue, we explore four different pairs for activist engagement: U.S. activists engaging with target firms at home (U.S. domestic), non-U.S. activists engaging with targets in their respective home market (non-U.S. domestic), U.S. activists engaging targets outside the U.S. (U.S. foreign) and non-U.S. activists targeting firms outside their home market (non-U.S. foreign). This allows us to benchmark the performance of U.S. activists at home against their performance overseas, and against their foreign peers, who themselves engage both domestic and foreign targets. Domestic engagements approximate three quarters of total engagements, with the other quarter being engagements by foreign activists.

Table 8 reports engagement characteristics and performance partitioned by these four categories of activist-target pairings. Comparing domestic activist engagements with foreign engagements, we find that target firm size is smaller in domestic engagements, and they tend to have significantly higher activist stakes, 7.9 and 9.4 percent for non-U.S. and U.S. domestic engagements, compared with 6.0 and 6.1 percent for non-U.S. and U.S. foreign engagements, respectively. There is no difference between U.S. and non-U.S. domestic targets however.

Disclosure returns for domestic engagements are also significantly higher than for foreign deals, with roughly 7 percent abnormal performance during the (-20, 20) event window for domestic engagements compared with 3.7 percent for foreign engagements. Again, domestic engagements are similar for U.S. and non-U.S. activists. This suggests that domestic activism is more profitable than foreign activism.

Among activists across all countries, U.S. activists targeting domestic firms have significantly higher probabilities of achieving an outcome, which is not surprising given our earlier results on outcomes in the US. However, this advantage is not one of U.S.-style activism per se, as it does not carry over to U.S. activists targeting firms abroad. Instead, U.S. activists targeting foreign firms are no different in their success rates from other non-domestic activists. More importantly, the higher success rates of U.S. domestic activists does not translate into higher performance, apparently because the higher incidence in achieving outcomes relates only to board and payout policy changes, which we have shown are the least profitable types of outcomes. Controlling for type of outcome, domestic engagements do not earn higher returns than foreign

engagements. This suggests that the performance of engagements within a country depends more on the governance and culture of that country, rather than the import of a foreign model of activism.

E. Performance of wolf pack activist engagements

Table 9 reports deal characteristics and deal performance for engagements that involve more than one activist at the same time, i.e. wolf packs. The activists involved most frequently in wolf pack engagements are Ramius (25 engagements), Steel Partners (23), Barington Capital Group (20), Third Point (13) and Carl Icahn (10). Comparing stand-alone activist engagements with wolf pack engagements, we find that target firm size is similar but wolf pack engagements tend to have significantly higher activist stakes, 13.4 compared with 8.3 percent. Disclosure returns for wolf pack engagements are also higher than for stand-alone deals, with roughly 14 percent abnormal performance during the (-20, 20) event window around the engagement disclosure for wolf packs, and 6 percent for stand-alone engagements. The higher announcement returns of wolf pack engagements coincide with a much higher incidence of outcomes achieved for these deals: The probability of achieving at least one outcome is 46% for stand-alone engagements, while it is 78% for wolf-pack deals. The higher probability of achieving outcomes is mostly reflected in board change outcomes, but all categories of possible outcomes are higher for wolf packs than for stand-alone activists. The higher success rate reflects not only the larger share stakes but also the greater influence on other parties that comes from multiple activists. Wolf packs do not earn higher returns upon disclosure of outcomes. Therefore, it appears that the much higher initial announcement returns of wolf packs versus stand-alone activists are driven by expectations of wolf packs having higher probabilities of achieving the outcomes they seek, instead of implementing "better" outcomes.

E. Long-term abnormal returns and outcomes

To obtain measures of overall performance of an engagement one could simply add disclosure abnormal returns to outcome abnormal returns, but not all engagements have outcomes. To overcome this problem, we calculate abnormal returns over the entire engagement period, from entry to exit of the activist. This enables us to compare the profitability of engagements with and without observable outcomes. In addition, we can determine if, in aggregate, post block disclosure returns are non-zero.

In Table 10 we report raw annualized returns from the time of disclosure of an activist stake to exit, equal- and value-weighted. We require complete stock price series for each target firm from entry to exit. 1187 out of 1740 deals have sufficient data available. [13]

We separate engagements with at least one outcome from those without any outcomes. As expected, returns are significantly higher for engagements with outcomes compared with those with no outcomes. This holds for the full sample, for the subsamples of Asia, Europe and North America, and for both equal- and value-weighted returns. On an annualized basis, activism with outcomes generates value-weighted returns of 11.1 percent, compared with 4 percent for activism without outcomes, although the annualized difference of 7.1 percent is not significant. With equal-weighting, return differences are larger at 13.8 percent and significant at the 1 percent level. We find results that are roughly constant across regions. Value-weighted, annualized returns of firms successfully targeted by activists versus unsuccessful ones are 15.4 versus 5.4 percent in Asia, 8.3 versus 4.6 percent in Europe, and 11 versus 1.4 percent in North America. The long/short portfolio that holds the portfolio of engagements with outcomes and sells short the portfolio of engagements without outcomes has a positive return in all the regions, but it is not significant. With equal-weighting, returns overall decrease, but more so for engagements without outcomes. As a result, the long/short portfolio earns an annualized return of 12.7 percent in Asia, 14.5 percent in Europe, and 13.1 percent in North America, always significant at the 5 percent level or better.[14]

In Table 11 we report estimates of abnormal long-term performance of firms targeted by activists, using event portfolio returns calculated in calendar time. As previously described, the event portfolio is rebalanced each month to include all firms in that month that are subject to an ongoing activist engagement. The excess returns of this portfolio are regressed on the excess return of the market (MktModel) and the four Fama and French (1993) and Carhart (1997) mimicking portfolios (Carhart); the regression intercepts are annualized and provide our estimate of abnormal performance of the target portfolio.

Panels A and B report equal-weighted and value-weighted results for the regression intercepts, Alpha. The table shows Alpha for deals with at least one outcome, for deals without any outcome, and for the long/short portfolio that holds the portfolio of engagements with outcomes and sells short the portfolio of engagement with no outcomes. In Panel A with equal-weighting, activist

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engagements with outcomes produce annualized positive abnormal returns of 8.4 percent (MktModel) and 1.1 percent (Carhart) for the entire sample, while engagements with no outcomes have abnormal returns of -5.5 percent (MktModel) and -9.8 percent (Carhart). The long/short portfolio's return is 13.9 percent and 10.9 percent, respectively, significant at the 1 percent level. We find similar results when we split portfolios by region. Significance levels remain high, as deals with outcomes continue to generate positive abnormal returns in all regions, while deals without outcomes generate zero or negative abnormal returns. In Panel B with value-weighting, abnormal returns increase overall, to 11.3 and 8.0 percent with outcomes, and 4.0 and 2.3 percent with no outcomes. Interestingly, larger deals on average exhibit positive performance even with no outcomes, causing the long/short portfolio return to be insignificant in all specifications of Panel B.

Overall, the results confirm that activist engagements without outcomes do not generate significant shareholder value anywhere. Engagements with outcomes however generate value for shareholders, particularly in large firms. It is unlikely that this consistent pattern across regions is a coincidence. Shareholder activists do not rely on "pump and dump" returns at the time they disclose their stakes. Positive returns to shareholder activism come from engagements associated with observable outcomes.

F. Determinants of activist engagement outcomes

Finally, we consider the determinants of an activist achieving an engagement outcome, in a multivariate setup. Table 12 reports the results of probit regressions, where the dependent variable is whether the activist achieves at least one outcome in columns 1 and 2, and whether the activist achieved at least one specific type of outcome (board change, payout change, restructuring or takeover) in columns 3 to 10. The independent variables include the region of the target firm, the holding period, whether the firm was previously a target of activism, whether the activist is part of a wolf pack, the activist's initial stake, the size of the target's market capitalization, the percent of the target's shares that are closely held, as well as fixed effects for all entry years, exit years, and one-digit SIC industries.

The results show that, relative to Asia as the base case, the probability of achieving an outcome is roughly a third higher in Europe and almost 50 percent higher in North America. Outcomes become significantly more likely if the engagement has been ongoing for longer, if it involves a wolf pack, if the activist has a higher initial stake, and if the target firm is larger. The probability of achieving any outcome is marginally lower if the target firm has been previously subject to investor activism. These results confirm our previous univariate results that, controlling for the market cycle of activism and both the characteristics of the target firm and the characteristics

of the activist, engagements are significantly less likely to achieve outcomes in Asia, relative to Europe and North America.

To provide a sense of country-specific outcome probabilities, Panel B repeats the probit regressions from above, but uses country fixed effects instead of region fixed effects.[15] The country coefficients show that within regions, there is heterogeneity among countries with respect to the likelihood with which activists achieve their goals. If all outcomes are considered, the countries where activists have significantly lower success rates than in the U.S. are Japan (with the lowest success rate), South Korea, the U.K., Italy, and Germany. Spain and Hong Kong have negative coefficients but they are not statistically significant. Canada and the Netherlands are the only countries where outcomes are significantly more likely than in the U.S.

When we consider the specific outcomes of board changes, payout changes, restructurings and takeovers, country rankings differ considerably. Activists are most successful in Sweden with board changes, in the Netherlands with restructurings, and in Norway, Luxembourg, Belgium and Canada with takeovers. Interestingly, Belgium and Luxembourg are among the least successful countries regarding other outcomes (board changes for Belgium and non-takeover restructurings for Luxembourg). We cannot establish causality here, since activist engagements and their specific goals are not randomly initiated across countries. Still, ex post these country rankings to some degree reflect a record of activists' success rates, conditional on institutional characteristics of countries. This would suggest, for example, that activism in Japan and Spain is generally unlikely to be unsuccessful, no matter what the activist's objective might be, while activism in cases of restructuring may be very successful in the Netherlands, and takeovers especially successful in Norway.

VI. Conclusion

Our paper, to our knowledge, is the first to provide large-sample evidence on the performance of shareholder activism around the world. During the period 2000 to 2010, we analyze 1740 public engagements by activist hedge funds across 23 countries and identify the outcomes of each engagement, including changes to payout policy, governance, corporate restructuring and takeovers. We show that activist engagements with outcomes exhibit positive and significant abnormal performance for the entire engagement period, while activist engagements without outcomes do not. Success of the activist business model as such appears to crucially depend on the activist achieving outcomes. We also show that, where activists are successful in achieving their objectives, not all

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[15] The U.S. is now the base case, and countries with less than five engagements are grouped into a fixed effect for "Rest of world" (not reported).

types of activism are equally beneficial. Activist engagements appear to create little or no shareholder value when the activist achieves changes in board structure and payout policy without corresponding restructuring. Instead, activist engagements that are successful in achieving a corporate restructuring, particularly a takeover, or multiple objectives, generate significant value for shareholders. The evidence confirms that the expectation of outcomes, particularly with respect to takeovers, is a key parameter for the activist business model. We provide evidence that shareholder activism has become a global phenomenon. The U.S. model of activism has been successfully copied by foreign activists, who outperform U.S. activists in their domestic markets. Finally, we show that hedge fund wolf packs, who we conservatively estimate to account for roughly a fifth of overall activism, are among the most successful types of activism.

As illustrated by Martin Lipton's comment cited in our introduction, shareholder activism remains controversial. Our analysis however provides evidence that increases in shareholder value of firms targeted by activists are not simply short-term. Increases in shareholder value due to activism are also tightly linked to activists achieving their goals. In Europe and North America, where activists are more successful in achieving outcomes, gains for shareholders are larger than in Asia, where activists have seen limited success.

Of course, there are substantial caveats to our findings, most importantly related to how we measure performance. The returns to activism that we measure may not be sufficiently adjusted for risk taking, and the positive returns to hedge fund activism might reflect risks we do not account for. But our best estimate is that activism produces improvements in shareholder value, which in turn is due to achieving outcomes. If activism is short term that is because the market is short term. Activists appear to deliver what the market wants, and if this creates problems these lie more with the capital markets, and less with activism.

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Figure 1 Total activist engagement activity

New activist engagements, activist exits, and the stock of activist engagements (new engagements plus prior stock minus exited engagements) by quarter. The vertical line indicates Q3 2007, the beginning of the 2007-2008 financial crisis (BNP Paribas halts redemptions on three sub-prime investment funds on 9 August 2007).
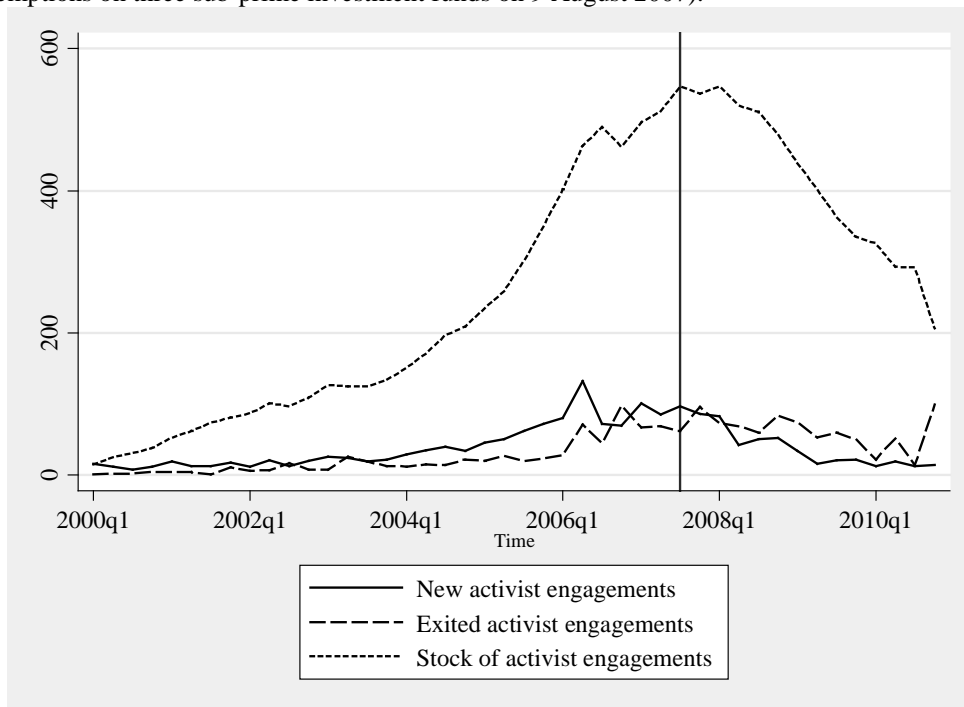
Figure 2 Activist engagement timeline

An activist engagement is assumed to begin (t=1) when the regulatory block disclosure is crossed or an activist engagement is first disclosed in the press (t=2). The engagement is assumed to end (t=5) when the activist stake is reported to be sold (t=4). Prior hedge fund activism research is based on this type of timeline. Activist demands might be disclosed at t=2 or later. In case activist demands yield outcomes the earliest announcements of these outcomes (t=3) are recorded.
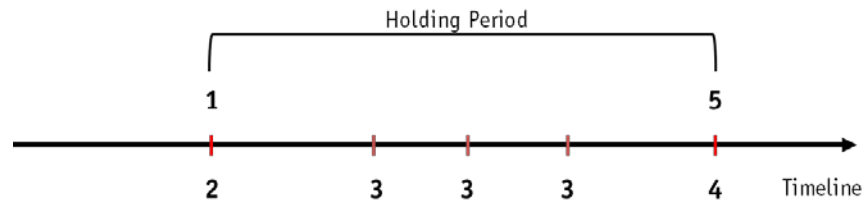
1: Engagement assumed to start
2: Block disclosure (regulatory or voluntary)
3: Engagement outcomes
4: Block reported to be sold
5: Engagement assumed to end

Figure 3 Cumulative abnormal returns around disclosure of activist engagements

Average cumulative abnormal returns around the initial filing date or the first press disclosure date of engagements, market model adjusted. The event window is (-20, +20) days, where day zero corresponds to the filing or press disclosure date. Factor loadings are estimated over 250 trading days preceding the event window, using country-specific domestic market returns, with a minimum of 150 daily observations (1,617 out of 1,740 sample deals have sufficient data). Also shown is abnormal trading activity in the target's equity during the event window, where trading activity is abnormal share turnover calculated relative to average turnover during 250 trading days preceding the event window.
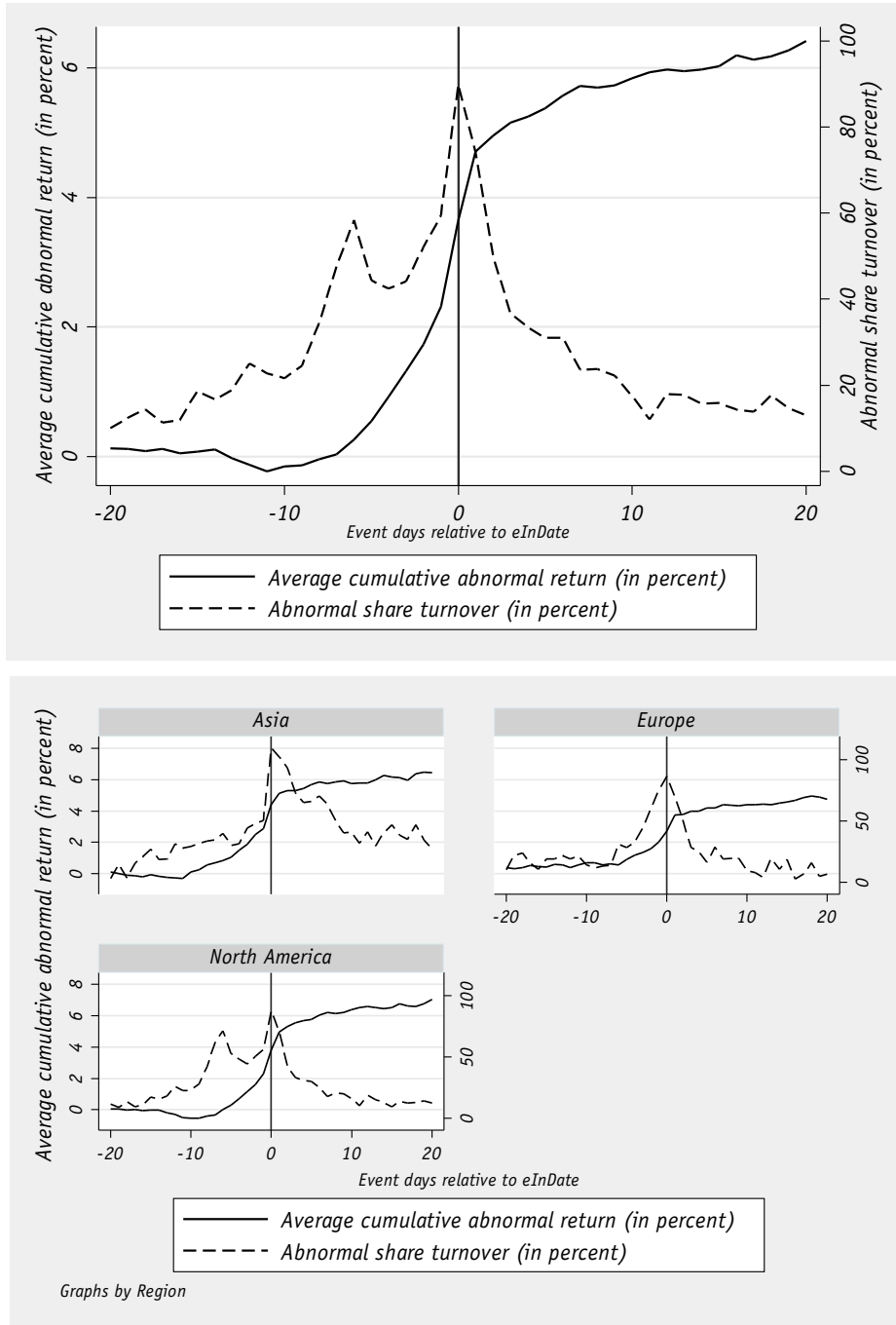
Figure 4 Activist engagement outcomes and takeovers

Number of outcomes by quarter, with the total number of outcomes on the left axis, and the number of takeover outcomes on the right axis. The vertical line indicates Q3 2007, the beginning of the 2007-2008 financial crisis.
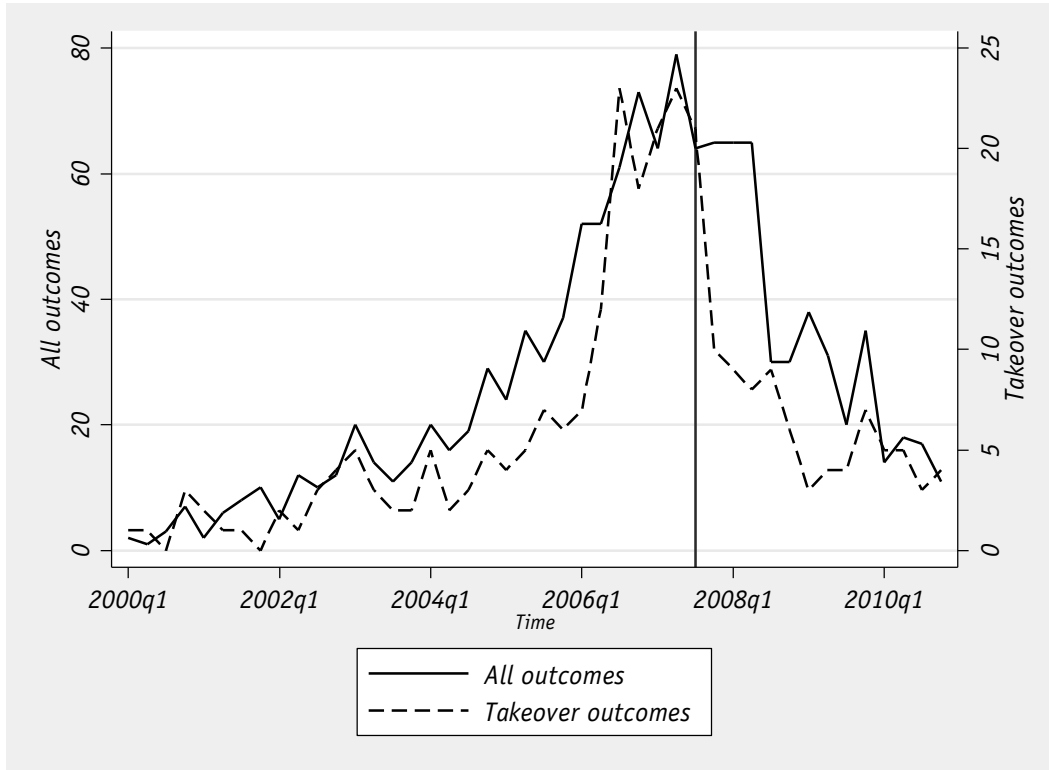
Figure 5 Cumulative abnormal returns around exit of activists

Average cumulative abnormal returns around the exit announcements of activists, market model adjusted. The event window is (-20, +20) days, where day zero corresponds to the announcement of an exit. Factor loadings are estimated over 250 trading days preceding the event window, using country-specific domestic market returns, with a minimum of 150 daily observations (1,180 out of 1,740 sample deals have sufficient data). Also shown is abnormal trading activity in the target's equity during the event window, where trading activity is abnormal share turnover calculated relative to average turnover during 250 trading days preceding the event window.
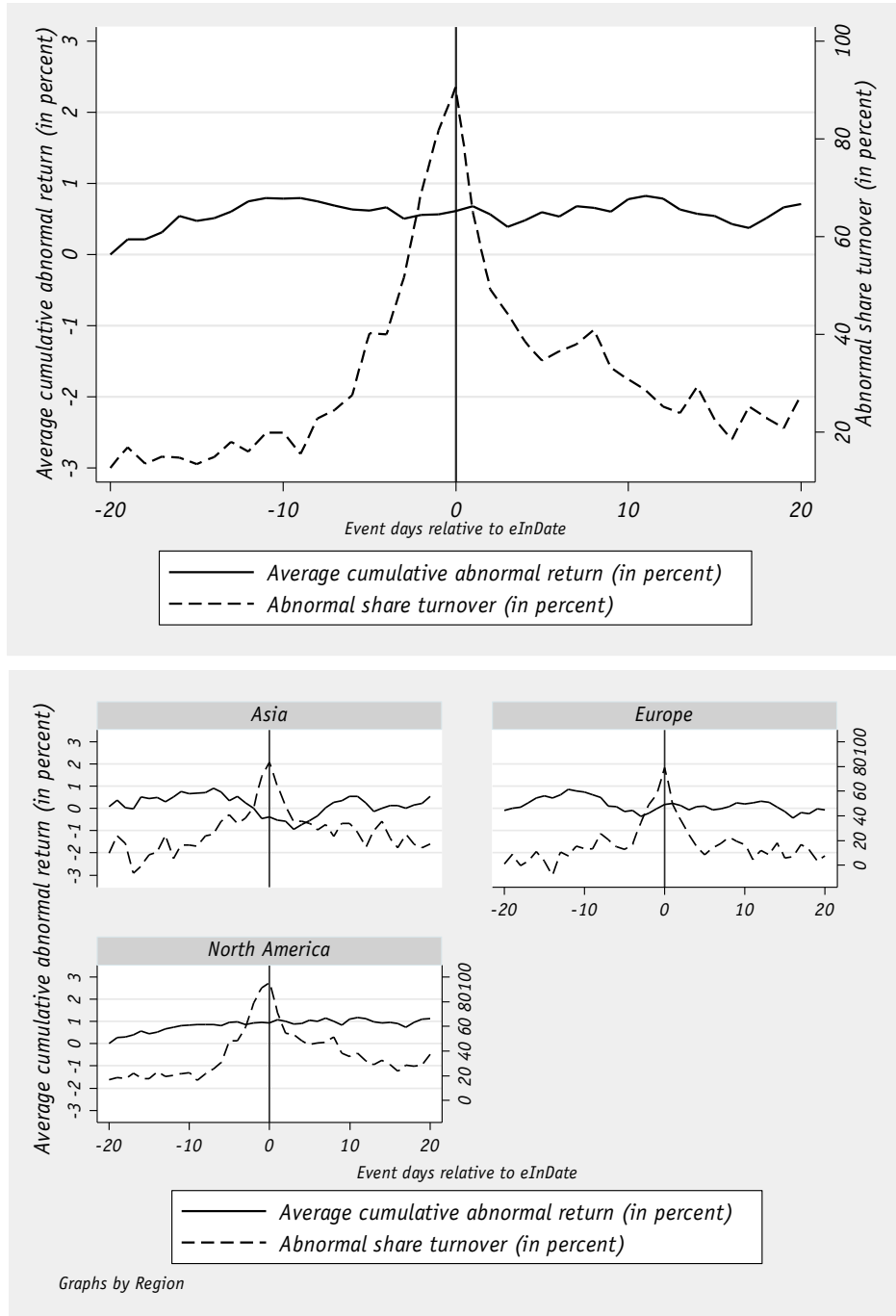
Table 1 Activist engagements by year, country and fund group

Public engagements between 1 January 2000 and 31 December 2010. In Panel B, countries are listed with a minimum of seven engagements. In Panel C, fund names are listed for funds with a minimum of ten engagements worldwide. In Panel E, wolf packs indicate engagements of multiple activists with the same target

Panel A: Engagements by year					
Year of initial filing or press disclosure	Number of engagements	Percent	Year of initial filing or press disclosure	Number of engagements	Percent
2000	48	2.8	2006	354	20.3
2001	63	3.6	2007	369	21.2
2002	66	3.8	2008	228	13.1
2003	91	5.2	2009	93	5.3
2004	138	7.9	2010	59	3.4
2005	231	13.3	Total	1,740	100

Panel B: Engagements by country					
Country	Number of engagements	Percent	Country	Number of engagements	Percent
Belgium	9	0.5	Sweden	15	0.9
Canada	20	1.2	Switzerland	19	1.1
France	27	1.6	U.K.	165	9.5
Germany	53	3.1	U.S.	1,125	64.7
Hong Kong	7	0.4	Other countries	22	1.3
Italy	42	2.4			
Japan	184	10.6			
Netherlands	22	1.3	Region: Asia	214	12.3
Norway	7	0.4	Region: Europe	381	21.9
South Korea	23	1.3	Region: North America	1145	65.8

Panel C: Engagements by fund group					
Fund	N	Fund	N	Fund	N
Steel Partners	92	Financial Edge Fund	21	MMI Investments LP	14
Carl Icahn	51	SCFS Equities	20	Effissimo Capital Management	13
ValueAct Capital Partners	51	Cannell Capital	20	Atlantic Investment Management	13
Ramius	50	Discovery Group	19	Ichigo Asset Management	13
Third Point	39	Shamrock Activist Value Fund	19	DE Shaw Group	13
Murakami Fund	35	Amber Capital	18	Sandell Asset Management	13
Farrallon Capital Management	30	Centaurus Capital	17	Principle Capital Inv. Trust	13
Harbinger Capital	30	SAC Capital Advisors	17	Highland Capital Management	13
Elliott Associates	30	The Children's Investment Fund	17	Nierenberg Investment Partners	12
Wynnefield Capital	29	Stillwell Value	17	Audley Capital	12
Hermes Focus Funds	28	Southeastern Asset Management	16	Leonardo Capital	11
Blum Capital Partners	26	Pirate Capital, LLC	16	Breeden Capital Management	11
Riley Investment Management	26	Relational Investors	16	Liberty Square	11
Laxey Partners	25	Dalton Fund	15	Yucaipa Companies LLC	10
Barington Capital Group	24	Newcastle Partners	15	Governance for Owners	10
Cycladic Capital Management	23	Third Avenue Asset Management	15	Deminor	10
Symphony Financial Partners	23	Clinton Group	14	Greenlight Capital	10
Jana Partners	22	GAMCO Investors, Inc	14	David M Knott	10
Taiyo Pacific Partners	22	Cevian Capital	14	Sterling Investment Group	10
Wyser Pratte & Co	22	Lazard Korea Corp. Gov. Fund	14		
Pershing Square LLC	22	K Capital Partners	14		

Panel D: Engagements by nationality of target and activist		
	Number of engagements	Percent
Non-U.S. activist, domestic engagement	204	11.7
U.S. activist, domestic engagement	1,115	64.1
Non-U.S. activist, foreign engagement	202	11.6
U.S. activist, foreign engagement	219	12.6
Total	**1,740**	**100**

Panel E: Wolf pack engagements				
	Engagements	Percent	Target firms	Percent
Stand-alone activist	1,362	78.3	1,315	88.2
Wolf pack	378	21.7	172	11.8
Total	1,740	100.0	1,534	100.0
If wolf pack				
2 hedge funds involved	290	76.7	142	83.5
3 or more hedge funds involved	88	23.3	28	16.5
Total	378	100.0	170	100.0

Table 2 Activist engagements by entry and exit
Panel A reports the average holding periods for the full sample period 2000-2010. No exit by end of sample period indicates that the engagement is ongoing or no exit has been announced by the activist as of December 31, 2010.

Panel A: Entry and holding period			
Year of initial regulatory filing or press disclosure	Number of engagements	Average holding period (in days) for exited engagements	No exit by Dec 2010
2000	48	948	3
2001	63	995	11
2002	66	1183	10
2003	91	827	13
2004	138	889	22
2005	231	728	33
2006	354	536	79
2007	369	443	93
2008	228	321	93
2009	93	194	57
2010	59	137	56
Total	1740	624	470

Panel B: Exits						
Year of initial regulatory filing or press disclosure	Number of engagements	% of which exit within				% with no exit by Dec 2010
		1 year	2 years	3 years	4 or more years	
2000	48	16.7	29.2	12.5	35.4	6.3
2001	63	7.9	33.3	6.3	34.9	17.5
2002	66	6.1	21.2	13.6	43.9	15.2
2003	91	18.7	26.4	7.7	33	14.3
2004	138	13	23.2	11.6	36.2	15.9
2005	231	10.8	32	14.3	28.6	14.3
2006	354	20.1	26.3	15.5	15.8	22.3
2007	369	21.7	27.9	16.5	8.7	25.2
2008	228	21.1	27.6	8.8	1.8	40.8
2009	93	20.4	18.3	0.0	0.0	61.3
2010	59	3.4	1.7	0.0	0.0	94.9

Table 3 Activist engagement outcomes

The Table shows the number of outcomes in the database by year and outcome type. Engagement outcomes are categorized as board changes (replacement of the CEO, Chairman or Non-Executive Directors), changes to pay-out policy (share buybacks or increased/special dividends), restructuring (divestitures and spin-offs of non-core assets, and blocking diversifying acquisitions), and takeovers (the target firm is acquired by a strategic buyer or private equity fund).

Initial year	All deals	Deals with outcome	Outcomes per deal	Type of outcome				Total outcomes
				Board	Payout	Restructuring	Takeover	
2000	48	50%	96%	8	8	13	15	44
2001	63	51%	87%	15	16	11	7	49
2002	66	71%	112%	28	9	12	17	66
2003	91	65%	120%	36	19	22	15	92
2004	138	57%	109%	40	27	28	24	119
2005	231	60%	113%	74	38	40	50	202
2006	354	56%	99%	95	57	48	60	260
2007	369	50%	74%	85	46	36	45	212
2008	228	45%	69%	54	25	15	21	115
2009	93	45%	63%	20	7	9	13	49
2010	59	39%	47%	13	0	7	3	23
Total	1740	53%	90%	468	252	241	270	1231

Table 4 Activist engagements and takeovers
The table compares the incidence of activist engagements and unsolicited takeover offers across regions and countries. Unsolicited takeover offers are from SDC Platinum and include all listed targets with market capitalization of at least $10 million. Number of (domestic) listed firms are from the Worldbank. Countries are sorted in declining order by 'Activist engagements per 1,000 listed firms, bold indicates higher incidence of activism relative to hostile takeovers.

Region/Country	Total number of activist engagements	Activist engagements per year (avg)	Unsolicited bids per year (avg)	Activist engagements per 1,000 listed firms	Unsolicited bids per 1,000 listed firms
Region					
Asia	214	19.5	2.8	3.2	0.5
Europe	381	34.6	20.5	3.4	2.1
North America	1145	104.1	40.1	11.7	4.6
Countries with at least 5 activist engagements during sample period					
U.S.	1125	102.3	31.4	**19.6**	5.8
Italy	42	3.8	0.5	**13.3**	1.6
Luxembourg	5	0.5	0.2	**12.4**	5.3
Netherlands	22	2	1.2	**11.6**	7.4
Germany	53	4.8	0.7	**7.3**	1.1
Switzerland	19	1.7	1.3	**6.6**	4.9
U.K.	165	15	9.9	**6**	4.1
Japan	184	16.7	2.5	**4.9**	0.7
Sweden	15	1.4	1.2	**4.8**	4
Belgium	9	0.8	0.3	**4.6**	1.2
Norway	7	0.6	0.9	3.6	4.8
France	27	2.5	1	**3**	1.2
South Korea	23	2.1	0.2	**1.2**	0.1
Hong Kong	7	0.6	0.2	**0.6**	0.2
Canada	20	1.8	8.7	0.6	3.3
Spain	5	0.5	1.5	0.2	0.6

Table 5 Abnormal returns from activist engagement announcements

The table shows average cumulative abnormal returns (CARs) around the initial filing date or the first press disclosure date of engagements, market model adjusted. Panel A shows the entire sample, Panel B shows results by region and entry year. Years with less than 10 observations are not reported. The event window is centered on day zero, where day zero corresponds to the filing or press disclosure date. Factor loadings are estimated over 250 trading days preceding the event window, using country-specific domestic market returns, with a minimum of 150 daily observations (1,617 out of 1,740 engagement disclosures have sufficient data). CARs are winsorized at the 1st and 99th percentiles. Robust standard errors are reported in brackets. ***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

Panel A: Abnormal returns around engagement disclosure						
Sample	Event window: (-10,10)			Event window: (-20,20)		
	Abn. Ret.	SE	*N*	Abn. Ret.	SE	*N*
Full	6.14***	[0.36]	1,617	6.40***	[0.486]	1,617
Asia	6.06***	[0.912]	213	6.43***	[1.238]	213
Europe	3.93***	[0.632]	377	4.75***	[0.898]	377
North America	6.97***	[0.480]	1,027	7.00***	[0.641]	1,027

Panel B: Time series of abnormal returns around engagement disclosure							
	Full sample		Asia		Europe		North America	
Disclosure year	CAR (-10,10)	CAR (-20,20)	CAR (-10,10)	CAR (-20,20)	CAR (-10,10)	CAR (-20,20)	CAR (-10,10)	CAR (-20,20)
2000	13.2	15.2			6.3	5.6	17.3	21.4
2001	5.7	9.4			-0.5	-10.3	7.5	13.9
2002	6.7	7.8			4.5	2.5	8.2	11.3
2003	7.8	8.8			6.4	9.6	7.5	8.0
2004	7.3	7.5	10.7	15.6	3.4	5.2	8.7	6.1
2005	3.8	3.9	2.6	1.8	2.5	5.0	4.9	4.3
2006	6.1	6.5	7.1	8.1	3.3	3.4	6.8	7.2
2007	4.9	4.2	4.2	3.7	3.5	2.8	5.5	4.9
2008	8.1	7.8	14.0	12.1	3.6	5.7	8.2	7.6
2009	4.6	5.7			12.9	21.5	3.1	1.7
2010	6.7	6.4			1.1	1.2	8.4	7.9

Table 6 Abnormal returns from engagement outcomes

The table shows average cumulative abnormal returns (CARs) around the announcement of engagement outcomes, market model adjusted. Engagement outcomes are categorized as board changes (replacement of the CEO, Chairman or Non-Executive Directors), changes to pay-out policy (share buybacks or increased/special dividends), restructuring (divestitures and spin-offs of non-core assets, and blocking diversifying acquisitions), and takeovers (the target firm is acquired by a strategic buyer or private equity fund). In case of multiple announcements of outcomes in an engagement, CARs are summed across announcements. In case of different outcome types within an engagement where one outcome is a takeover (e.g. a 'Board' outcome and a 'Takeover' outcome), the engagement is classified as 'Multiple+Takeover'. In case of different outcome types within an engagement but none being a takeover, (e.g. a 'Board' outcome and a 'Payout' outcome), the engagement is classified as 'Multiple+NoTakeover'. The event window is centered on day zero, where day zero corresponds to the earliest announcement date of the outcome. Factor loadings are estimated over 250 trading days preceding the event window, using country-specific domestic market returns, with a minimum of 150 daily observations (850 out of 1,740 engagements have sufficient data and at least one subsequent outcome). CARs are winsorized at the 1st and 99th percentiles. Robust standard errors are reported in brackets. ***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

Panel A: Abnormal returns around engagement outcomes						
	Event window: (-10,10)			Event window: (-20,20)		
	Abn. Ret.	SE	N	Abn. Ret.	SE	N
All outcomes	6.33***	[0.62]	850	6.42***	[0.78]	850
Board	4.04***	[1.00]	272	4.48***	[1.45]	272
Payout	1.42	[1.07]	134	-0.16	[1.54]	134
Restructuring	5.74***	[1.69]	118	5.60***	[1.92]	118
Takeover	9.33***	[1.16]	187	9.73***	[1.33]	187
Multiple+Takeover	18.3***	[3.68]	58	18.1***	[4.20]	58
Multiple+NoTakeover	7.46***	[2.44]	81	9.04***	[2.95]	81

Panel B: Abnormal returns around engagement outcomes by region							
		Event window: (-10,10)			Event window: (-20,20)		
Region	Outcome	Abn. Ret.	SE	N	Abn. Ret.	SE	N
Asia	All outcomes	4.03**	[1.91]	38	2.72	[3.48]	38
	Board	-1.03	[5.56]	6	-4.20	[10.6]	6
	Payout	2.34	[2.22]	15	-1.62	[3.98]	15
	Restructuring	8.03*	[3.65]	9	4.60	[4.07]	9
	Takeover	3.33	[8.16]	4	1.15	[13.7]	4
	Multiple+Takeover	13.7***	[0.10]	2	1.70	[9.42]	2
	Multiple+NoTakeover	5.60	[21.0]	2	51.7	[25.1]	2
Europe	All outcomes	8.32***	[1.43]	183	8.77***	[1.74]	183
	Board	1.75	[2.90]	43	4.03	[4.19]	43
	Payout	-0.21	[1.56]	12	1.30	[3.06]	12
	Restructuring	5.53***	[1.81]	33	5.25**	[2.09]	33
	Takeover	9.87***	[1.88]	54	10.8***	[2.25]	54
	Multiple+Takeover	27.3***	[7.51]	16	25.1**	[9.45]	16
	Multiple+NoTakeover	11.9**	[5.27]	25	10.3*	[5.93]	25
North America	All outcomes	5.89***	[0.72]	629	5.97***	[0.90]	629
	Board	4.62***	[1.07]	223	4.80***	[1.56]	223
	Payout	1.47	[1.30]	107	-0.11	[1.83]	107
	Restructuring	5.56**	[2.48]	76	5.87**	[2.81]	76
	Takeover	9.29***	[1.48]	129	9.54***	[1.64]	129
	Multiple+Takeover	15.0***	[4.34]	40	16.2***	[4.76]	40
	Multiple+NoTakeover	5.49**	[2.66]	54	6.89**	[3.25]	54

Table 7 Abnormal returns from engagement exit announcements

The table shows average cumulative abnormal returns (CARs) around the announcement of engagement exits, market model adjusted. The event window is centered on day zero, where day zero corresponds to the exit announcement date. Factor loadings are estimated over 250 trading days preceding the event window, using country-specific domestic market returns, with a minimum of 150 daily observations (1180 out of 1,740 engagement disclosures have sufficient data and an observed exit date within the sample period). CARs are winsorized at the 1st and 99th percentiles. Robust standard errors are reported in brackets. ***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

Sample	Event window: (-10,10)			Event window: (-20,20)		
	Abn. Ret.	SE	*N*	Abn. Ret.	SE	*N*
Full	-0.08	[0.39]	1,180	0.57	[0.577]	1,180
Asia	-0.10	[1.120]	129	0.54	[1.710]	129
Europe	-0.48	[0.801]	288	-0.07	[1.107]	288
North America	0.07	[0.487]	763	0.81	[0.734]	763

Table 8 Performance of activist engagements by type of activism

The table reports deal characteristics and deal performance of domestic and foreign activist engagements. Cumulative abnormal returns are calculated as in Tables 5 and 6, winsorized at the 1st and 99th percentiles. ***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

	Domestic NonU.S. (1)	Domestic U.S. (2)	Foreign NonU.S. (3)	Foreign U.S. (4)	Diff. (t-stat) (3)&(4)-(1)&(2)
Panel A: Target firms and disclosure returns					
Target firm characteristics:					
Market cap (bn)	0.96	1.04	1.71	1.44	-5.45***
	(1.33)	(2.33	(2.33	(2.33)	
Activist stake	7.9	9.37	6.02	6.12	7.98***
	(6.33)	(7.33)	(4.33)	(5.33)	
Cumulative abnormal disclosure returns:					
Event window: (-10,10)	7.02***	6.97***	3.84***	3.55***	4.01***
	(1.02)	(0.49)	(0.86)	(0.74)	
Event window: (-20,20)	7.34***	6.94***	4.27***	4.87***	2.21**
	(1.44)	(0.65)	(1.12)	(1.10)	
Panel B: Outcomes					
Achieving outcomes:					
Probability of any outcome	37%	57%	39%	41%	5.18***
...of the type Board	18%	27%	17%	12%	4.84***
…of the type Payout	8%	13%	8%	10%	2.08**
…of the type Restructuring	10%	11%	10%	16%	-1.39
…of the type Takeover	15%	16%	13%	12%	1.54

Cumulative abnormal outcome disclosure returns

		ARet.	SE	ARet.	SE	ARet.	SE	ARet.	SE	
(-10,10)	All outcomes	9.17***	(2.63)	6.19***	(0.73)	6.19***	(1.89)	5.11***	(1.69)	0.56
	Board	-3.06	(4.37)	4.90***	(1.08)	4.71	(4.86)	0.11	(2.30)	0.50
	Payout	2.26	(2.90)	1.72	(1.33)	-1.33	(2.27)	0.76	(2.15)	0.63
	Restructuring	4.03	(3.88)	5.94**	(2.54)	7.43**	(2.70)	5.09**	(2.30)	-0.05
	Takeover	10.8**	(4.15)	9.33***	(1.49)	6.30**	(2.20)	10.7***	(2.62)	0.30
	Multiple	24.0***	(6.21)	10.2***	(2.46)	11.1*	(5.69)	7.06	(9.47)	0.62
(-20,20)	All outcomes	8.91***	(3.25)	6.32***	(0.91)	7.39***	(2.76)	4.35**	(1.96)	0.34
	Board	-3.74	(6.57)	5.18***	(1.56)	7.25	(7.23)	1.55	(3.86)	0.53
	Payout	0.65	(9.07)	0.35	(1.86)	-5.17	(3.89)	-0.61	(2.95)	0.66
	Restructuring	2.47	(3.59)	6.43**	(2.86)	4.87	(3.93)	5.03*	(2.51)	0.26
	Takeover	12.0**	(4.50)	9.61***	(1.66)	9.13**	(3.88)	8.77**	(3.23)	0.62
	Multiple	23.5***	(7.51)	11.2***	(2.80)	14.6*	(7.58)	5.02	(10.5)	0.47

Table 9 Performance of wolf pack activist engagements

The table reports deal characteristics and deal performance of wolf pack activist engagements. Our sample includes 378 such engagements that involve 172 unique target firms. Cumulative abnormal returns are calculated as in Tables 5 and 6 and winsorized at the 1st and 99th percentiles. ***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

Panel A: Ten activists most frequently involved in wolf packs			
Fund	*N*	Fund	*N*
Ramius	25	Harbinger Capital	9
Steel Partners	23	Jana Partners	9
Barington Capital Group	20	SAC Capital Advisors	8
Third Point	13	Elliott Associates	7
Carl Icahn	10	Pershing Square LLC	6

	Stand-alone activist (1)	Wolf pack activists (2)	Diff. (t-stat) (1)-(2)	
Panel B: Target firms and disclosure returns				
Target firm characteristics:				
Market cap (bn)	1.14	1.31	-1.18	
	(1.71)	(1.97)		
Activist stake	8.30	13.40	-8.59	***
	(6.50)	(11.06)		
Cumulative abnormal disclosure returns:				
Event window: (-10,10)	5.98	13.97	-5.66	***
	(0.45)	(1.87)		
Event window: (-20,20)	6.34	13.70	-3.81	***
	(0.63)	(2.33)		
			Panel C: Outcomes	
Achieving outcomes:				
Probability of any outcome	46%	78%	-8.11	***
...of the type Board	12%	32%	-7.32	***
…of the type Payout	7%	9%	-1.01	
…of the type Restructuring	6%	11%	-2.73	***
…of the type Takeover	11%	15%	-1.59	
…of the type Multiple	11%	11%	-0.16	

Cumulative abnormal outcome disclosure returns

		ARet.	SE	*N*	ARet.	SE	*N*	
(-10,10)	All outcomes	6.38***	(0.76)	606	7.22***	(1.59)	130	-0.46
	Board	2.49*	(1.41)	150	4.74**	(2.21)	54	-0.84
	Payout	1.66	(1.33)	96	-1.03	(2.39)	15	0.77
	Restructuring	5.19***	(1.85)	75	5.80	(5.25)	19	-0.14
	Takeover	8.75***	(1.33)	146	14.0***	(3.44)	25	-1.51
	Multiple	12.0***	(2.13)	139	13.9**	(5.13)	17	-0.30
(-20,20)	All outcomes	7.11***	(0.99)	606	5.89***	(1.81)	130	0.53
	Board	4.20*	(2.16)	150	4.50	(3.04)	54	-0.07
	Payout	-0.27	(1.95)	96	-3.82	(3.11)	15	0.69
	Restructuring	6.25**	(2.57)	75	4.07	(4.09)	19	0.40
	Takeover	9.97***	(1.58)	146	11.6***	(3.36)	25	-0.40
	Multiple	12.8***	(2.48)	139	12.6*	(6.31)	17	0.03

Table 10 Returns from activist engagements, announcement to exit

The table reports calendar time portfolio returns of all firms targeted by activists, using monthly return data. The portfolio is formed and rebalanced each month to include all firms that have been engaged by an activist within the event window. The event window for each deal begins in the month of the activist engagement (the initial filing date or the first press disclosure date) and ends in the month during which the activist ended the engagement or, if no exit date is known, December 2010. Returns are excess returns, in annual percent. L/S is annual average return of a zero cost portfolio that holds the portfolio of engagements with outcomes and sells short the portfolio of engagements with no outcomes. t-statistics are in brackets. ***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

	Annualized raw returns on engagements with outcomes vs no outcomes					
	Engagements with outcomes		Engagements with no outcomes		L/S (Outcomes-NoOutcomes)	
	EW	VW	EW	VW	EW	VW
Full sample						
Mean	8.33	11.07**	-5.45	4.02	13.78***	7.05
t-statistic	[1.33]	[2.19]	[-0.92]	[0.59]	[3.46]	[1.17]
Std deviation	20.719	16.745	19.659	22.655	13.191	19.929
Skewness	-1.057	0.007	-0.796	-1.336	1.874	0.934
Asia						
Mean	14.94**	15.38**	2.91	5.36	12.67**	11.15
t-statistic	[2.17]	[2.06]	[0.48]	[0.68]	[2.40]	[1.36]
Std deviation	22.842	24.813	17.972	23.608	15.782	24.391
Skewness	0.687	0.782	0.164	-1.164	-0.010	0.152
Europe						
Mean	5.67	8.26	-8.83	4.61	14.49***	3.65
t-statistic	[0.97]	[1.36]	[-1.23]	[0.60]	[2.71]	[0.51]
Std deviation	19.278	20.161	23.722	25.468	17.750	23.916
Skewness	-0.947	-0.374	-1.133	-1.304	1.528	0.367
N. America						
Mean	8.03	10.96*	-5.12	1.43	13.14***	9.53
t-statistic	[1.15]	[1.82]	[-0.70]	[0.17]	[2.98]	[1.10]
Std deviation	23.050	19.936	24.377	28.662	14.643	28.672
Skewness	-1.085	-0.433	-0.511	-0.792	1.028	2.474

Table 11 Abnormal returns from activist engagements, announcement to exit, calendar time

The table reports calendar time portfolio returns of all firms targeted by activists, using monthly return data. The portfolio is formed and rebalanced each month to include all firms that have been engaged by an activist within the event window. The event window for each deal begins in the month of the activist engagement (the initial filing date or the first press disclosure date) and ends in the month during which the activist ended the engagement or, if no exit date is known, December 2010. Alpha is the intercept on a regression of monthly portfolio excess returns. The explanatory variables are the excess return of the market (MktModel) and the four Fama and French (1993) and Carhart (1997) mimicking portfolios (Carhart). Alphas are in annual percent. L/S is annual average return of a zero cost portfolio that holds the portfolio of engagements with outcomes and sells short the portfolio of engagements with no outcomes. Standard errors are in brackets. ***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

	Engagements with outcome v no outcome					
Panel A: Equal-weighted returns	Engagements with outcomes		Engagements with no outcomes		L/S (Outcomes-NoOutcomes)	
	MktModelAlpha (1)	Carhart Alpha (2)	MktModel Alpha (3)	Carhart Alpha (4)	MktModel Alpha (5)	Carhart Alpha (6)
Full sample	8.399**	1.104	-5.513	-9.750***	13.912***	10.854***
	[4.119]	[3.407]	[3.804]	[3.608]	[4.014]	[4.078]
Asia	13.379**	11.568**	1.204	-0.809	12.175**	12.377**
	[5.141]	[5.189]	[5.458]	[5.469]	[5.267]	[5.418]
Europe	5.643	1.413	-8.853	-12.697**	14.496***	14.110**
	[4.302]	[4.199]	[5.500]	[5.390]	[5.330]	[5.544]
N. America	8.104*	-0.801	-5.271	-11.784***	13.374***	10.983**
	[4.559]	[3.585]	[4.763]	[4.423]	[4.475]	[4.606]
Panel B: Value-weighted returns	Engagements with outcomes		Engagements with no outcomes		L/S (Outcomes-NoOutcomes)	
	MktModelAlpha (1)	Carhart Alpha (2)	MktModelAlpha (3)	Carhart Alpha (4)	MktModelAlpha (5)	Carhart Alpha (6)
Full sample	11.254***	7.987**	3.999	2.325	7.255	5.662
	[3.473]	[3.340]	[5.251]	[5.379]	[5.982]	[6.140]
Asia	14.183**	13.216**	2.587	0.588	11.596	12.628
	[6.172]	[6.299]	[6.717]	[6.820]	[8.194]	[8.350]
Europe	8.238*	8.077*	4.587	3.209	3.650	4.868
	[4.889]	[4.781]	[6.506]	[6.702]	[7.222]	[7.417]
N. America	11.309**	6.550	1.380	-1.206	9.930	7.756
	[4.613]	[4.449]	[6.633]	[6.816]	[8.513]	[8.675]

Table 12 Determinants of activist engagement outcomes

This table reports results of probit regressions of activist engagement outcomes. We focus on whether the activist achieves at least one outcome, and at least one specific type of outcome. Holding period is the log of the number of days between initial disclosure and exit of the activist; Previous target indicates whether (1) or not (0) the firm is a previous target of activism in our sample; Wolf pack indicates whether (1) or not (0) multiple activists engage the firm at the same time. Initial stake is the stake of the activist at initial announcement; Market cap is the log of market capitalization of the target in the year prior the engagement; Closely held is the percent of closely held equity of the target firm in the year prior to the engagement. Wolf pack engagements are considered as one observation; Holding period and Initial stake are averaged across activists for these observations. All specifications include entry year, exit year and one-digit SIC industry fixed effects. Coefficients are reported as marginal effects. Panel A reports the baseline regressions, with region fixed effects, and Asia as the base case. Panel B repeats that regression, but with country fixed effects, and the U.S. as the base case; countries with less than five engagements are classified as "Rest of world" and not shown. Robust standard errors of the marginal effects are calculated by delta method and reported in brackets. ***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

	Panel A: Determinants of activist engagement outcomes									
Dependent variable	At least one outcome achieved (1/0)		Specific outcome types achieved							
			Board outcome (1/0)		Payout outcome (1/0)		Restructuring outcome (1/0)		Takeover outcome (1/0)	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	dF/dx	dF/dx	dF/dx	dF/dx	dF/dx	dF/dx	dF/dx	dF/dx	dF/dx	dF/dx
Region: Europe	0.324***	0.377***	0.246***	0.303***	0.029	0.038	0.123***	0.124***	0.203***	0.240***
	[0.043]	[0.046]	[0.048]	[0.052]	[0.031]	[0.034]	[0.031]	[0.035]	[0.042]	[0.047]
Region: N. America	0.424***	0.492***	0.329***	0.379***	0.109***	0.142***	0.107***	0.134***	0.168***	0.202***
	[0.038]	[0.039]	[0.045]	[0.049]	[0.029]	[0.030]	[0.030]	[0.033]	[0.040]	[0.045]
Holding period (log)	0.090***	0.093***	0.128***	0.158***	0.052***	0.046***	0.052***	0.035**	0.003	0.002
	[0.019]	[0.022]	[0.021]	[0.027]	[0.014]	[0.015]	[0.015]	[0.016]	[0.013]	[0.014]
Previous target	-0.066	-0.135**	-0.042	-0.120**	-0.031	-0.080*	0.016	0.021	0.006	0.007
	[0.056]	[0.060]	[0.045]	[0.050]	[0.041]	[0.047]	[0.039]	[0.040]	[0.042]	[0.043]
Wolf pack	0.276***	0.267***	0.100***	0.081**	-0.001	0.005	0.009	-0.024	-0.029	-0.027
	[0.041]	[0.046]	[0.030]	[0.036]	[0.025]	[0.028]	[0.025]	[0.028]	[0.029]	[0.032]
Initial stake		0.005**		0.003		-0.001		0.003**		0.003**
		[0.002]		[0.002]		[0.001]		[0.001]		[0.001]
Market cap (log)		0.020**		0.001		0.020***		0.032***		-0.002
		[0.010]		[0.008]		[0.007]		[0.006]		[0.007]
Closely held (perc)		0.001*		0.001**		0.001		-0.000		0.000
		[0.001]		[0.001]		[0.000]		[0.000]		[0.000]
Industry FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Entry and exit year FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Pseudo R-squared	1,535	1,193	1,535	1,193	1,535	1,193	1,535	1,193	1,535	1,193
Observations	0.125	0.171	0.115	0.148	0.0910	0.107	0.0750	0.132	0.151	0.178

Panel B: Country rankings by outcome probability

Any outcome (1/0)			Board outcome (1/0)			Payout outcome (1/0)			Restructuring outcome (1/0)			Takeover outcome (1/0)		
	dF/dx rel. to U.S.	p-val		dF/dx rel. to U.S.	p-val		dF/dx rel. to U.S.	p-val		dF/dx rel. to U.S.	p-val		dF/dx rel. to U.S.	p-val
Japan	**-44.10%**	**[0.000]**	Belgium	**-124.90%**	**[0.000]**	Luxembourg	**-87.30%**	**[0.000]**	Luxembourg	**-64.90%**	**[0.000]**	HongKong	**-95.60%**	**[0.000]**
Spain	-35.70%	[0.131]	Spain	**-119.80%**	**[0.000]**	Spain	**-86.80%**	**[0.000]**	Japan	**-13.80%**	**[0.000]**	Spain	**-95.50%**	**[0.000]**
SouthKorea	**-29.30%**	**[0.002]**	Luxembourg	**-119.50%**	**[0.000]**	Norway	**-85.20%**	**[0.000]**	Italy	-6.20%	[0.238]	SouthKorea	**-84.30%**	**[0.000]**
HongKong	-17.60%	[0.276]	Japan	**-34.50%**	**[0.000]**	HongKong	**-83.50%**	**[0.000]**	Switzerland	-2.30%	[0.734]	Japan	**-15.40%**	**[0.000]**
U.K.	**-15.30%**	**[0.000]**	SouthKorea	**-25.90%**	**[0.007]**	Italy	**-16.90%**	**[0.040]**	U.K.	-2.20%	[0.388]	Germany	-5.20%	[0.317]
Italy	**-13.60%**	**[0.071]**	Germany	**-17.40%**	**[0.010]**	Switzerland	-13.50%	[0.132]	SouthKorea	-1.40%	[0.814]	Italy	-3.60%	[0.539]
Germany	**-11.80%**	**[0.080]**	HongKong	-13.50%	[0.388]	Japan	**-10.60%**	**[0.000]**	Norway	0.00%	[0.997]	Switzerland	1.40%	[0.853]
Luxembourg	-10.80%	[0.577]	U.K.	**-13.00%**	**[0.000]**	U.K.	**-10.00%**	**[0.001]**	Spain	3.80%	[0.727]	U.K.	**4.60%**	**[0.077]**
Belgium	-3.90%	[0.784]	Italy	-10.00%	[0.131]	SouthKorea	-8.40%	[0.222]	Belgium	5.40%	[0.482]	Sweden	7.20%	[0.351]
Switzerland	2.50%	[0.810]	France	-2.70%	[0.703]	Germany	-5.70%	[0.287]	Sweden	5.50%	[0.424]	France	9.00%	[0.161]
France	5.30%	[0.581]	Norway	0.20%	[0.987]	Netherlands	-5.40%	[0.456]	France	5.70%	[0.262]	Netherlands	9.10%	[0.164]
Norway	8.60%	[0.655]	Canada	4.30%	[0.570]	Belgium	-3.30%	[0.737]	Germany	**7.70%**	**[0.037]**	Canada	**16.00%**	**[0.011]**
Sweden	8.90%	[0.510]	Netherlands	4.90%	[0.529]	Canada	-2.20%	[0.739]	Canada	7.70%	[0.159]	Belgium	**16.30%**	**[0.026]**
Netherlands	**22.60%**	**[0.041]**	Switzerland	10.10%	[0.187]	France	2.80%	[0.620]	HongKong	10.90%	[0.234]	Luxembourg	**20.30%**	**[0.021]**
Canada	**29.60%**	**[0.013]**	Sweden	**19.90%**	**[0.036]**	Sweden	8.00%	[0.259]	Netherlands	**17.90%**	**[0.001]**	Norway	**28.20%**	**[0.003]**