

Institute for governance of private and public organizations

### The game of "activist" hedge funds: *Cui bono*?

**Working Paper** 

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#### **SUMMARY**

This paper aims to describe the contemporary tactics and objectives of activist hedge funds as well as the actions taken by targeted companies as a result of their intervention. While doing so, we explored the consequences of activism over time when compared to a random sample of firms with similar characteristics at the time of intervention (effects on operational performance and share price returns), and we analyzed the singularities associated with salient sub-groups of targeted firms. The sample used for our analysis consists of all 259 firms targeted by activist hedge funds in 2010 and 2011. We found evidence that any improvements in operating performance (ROA, ROE, Tobin's Q) result mainly from selling assets, cutting capital expenditures, buying back shares, reduce workforce, and other basic financial manoeuvres. Although there is no evidence of deterioration over a three-year period, the stock's performance of targeted companies over a three-year span barely matches the performance of a random sample of companies. We found that the best way for activists to make money for their funds is to get the company sold off or substantial assets spun-off. If not sold, the hedge fund episode often results for the targeted firms in change of senior management and board members, stagnation of assets and R&D. This research does not provide any evidence of the superior strategic sagacity of hedge fund managers but does point to their keen understanding of what moves stock prices in the short term.

#### Introduction

Shareholder activism comes in many shapes and hues (Nili, 2014). There's the socially minded, issue-driven, form of activism (Rehbein *et al.*, 2013:137), the "soft" activism of institutional investors and the "hard", financially driven, activism practiced principally by hedge funds. *Social activism* usually takes the form of pressures on corporations to change their social agenda and cope with environmental, moral, religious or other non-business issues. The *soft* activism of institutional investors usually involves shareholder proposals aimed at "improving corporate governance" (Thomas and Cotter, 2007). The Shareholder Rights Project set up by the Harvard Law School Program on Institutional Investors is representative of this type of activism.

Finally, the financially driven *activism of hedge funds* consists of targeting companies where it is expected that implementing measures from a menu of manoeuvres will likely boost their stock prices. The activist first determines whether a company would likely "benefit" from its intervention; if deemed so, the hedge fund takes an equity position and then begins to agitate for changes (Kahan & Rock, 2007). *This form of activism is the focus of this paper*.

Over the last few years, hedge fund activism has received a great deal of coverage in financial media (and in the mainstream press), has triggered heated debates and been the focus of much academic research. Saviour of capitalism for some, for others, activist hedge funds are but mongers of short-term tactics which eventually damage business corporations. (See "*The case for and against activist hedge funds*", Allaire (2015). The funds invested with these activists by institutional investors have been increasing at a 25.4% compounded annual rate between 2010 and 2015 (Turner, WSJ, 2015).

Flush with the cash showered on these funds by institutional investors (Plath and Taylor, 2014) and increasingly supported in their campaigns by mutual funds, pension funds and other institutional investors, some hedge funds are now targeting larger firms with the intention of forcing a split of their operations or an outright sale of the whole company. (Examples of these include Pershing Square at Allergan, Mondelez, etc.; Trian at Pepsico, Mondelez, Dupont, etc.; Value Act at American Express).

Much academic research has been carried out on the topic but the results are less than compelling. As usual, academia is enlightening but not decisive.

Here are some of the limitations of recent research:

 Events included as actual hedge fund interventions are vaguely or poorly identified, leading to very different numbers of occurrences for the same years in different studies. Table 1 illustrates this point rather strikingly, indicating large variations in definitions of activist events used by different researchers. For the same period of time or very close periods, researchers come up with different numbers of activist interventions.

|  |           | Number of |              | Unique    |
|--|-----------|-----------|--------------|-----------|
|  |           | hedge     | Hedge fund-  | target    |
|  | Period    | funds     | target pairs | companies |
| Brav, Jiang, Partnoy and Thomas (2008) | 2001-2006 | 236       | 1,059        | 882       |
| Xu and Li (2011)                       | 1994-2008 | 505       | 3,686        | 2,626     |
| Zhu (2013)                             | 1994-2007 | 330       | 1,264        | 988       |
| Clifford (2008)                        | 1998-2005 | 197       | 788          | N/A       |
| Boyson and Mooradian (2011)            | 1994-2005 | 111       | 418          | 397       |
| Greenwood and Schor (2009)             | 1994-2006 | 139       | 784          | N/A       |
| Gantchev (2013)                        | 2000-2007 | 171       | 1,164        | 1,023     |
| Bebchuk, Brav and Jiang (2013, 2015)   | 1994-2007 | N/A       | 2,040        | N/A       |
| Goodwin (2015)                         | 1990-2014 | N/A       | N/A          | 3,202     |

TABLE 1Number of hedge funds and targeted companies

- 2. The date at which the intervention really occurs is rarely explicit; the intervention's impact may be measured from the date of 13D filing or other public announcement, or the date at which the activist's demands are satisfied and whether the activist is eventually successful or not with his demands; these different dates and events make a significant difference in assessing the impact of the intervention (Goodwin, 2015). Karpoff (2001) illustrated the discrepancies among 20 empirical studies on the effects of shareholder activism. He pointed out differences in time periods, sample sizes, types of events examined, and definitions of success in shareholder activism (he found 6 different definitions of success).
- 3. Several studies, as shown in our Table 1, have gathered data on hedge fund activism going back to the 1990s; the nature and form of this activism have changed greatly over the years; by including older instances, these studies risk mixing apples and oranges in their analysis. Indeed, the findings from earlier work on activism seem to be contradicted by more recent research. For instance, according to Denes et al. (2015), "activism in more recent years is more frequently associated with increased share values and operating performance" while Ikenberry and Lakonishok, in 1993, found that "[W]hen dissidents are successful in acquiring board seats [...] a downward drift in cumulative abnormal returns extending over a 2-year period following the announcement of the contest is observed."
- 4. Many studies have been focusing on the impact of activists' 13D filing on the stock price of the targeted company *over a short period of time* (usually 20 days before and 20 days after). Indeed, there is ample evidence of «abnormal» returns in a short period around the public disclosure of activism (Brav et al., 2008; Clifford, 2008; Brav et al., 2009; Boyson and Mooradian, 2011; Greenwood and Schor, 2009; Klein and Zur, 2009; Gow et

al., 2014; Krishnan, Partnoy and Thomas, 2015), and in Europe and Asia (Becht et al, 2014)).

Many observers interpret this jump in stock price on the appearance of an activist fund as evidence of shareholders valuing their brand of activism. The trouble with that interpretation comes from the fact that, as shown in Figure 1 by von Lilienfeld-Toal and Schnitzler (2014), almost all announcements in the form of 13D filing tend to produce a boost in stock price of the company.

So, there is nothing special about activist hedge funds in this regard. Investors will tend to read almost any 13D filing as an indication that some move is afoot and will not want to miss out on an opportunity of whatever sort.



FIGURE 1 Abnormal returns for different 13-D filers

Source: Ulf von Lilienfeld-Toal and Jan Schnitzler "What is special about Hedge Fund Activism? Evidence from 13-D filings", Swedish House of Finance Research Paper No 14-16, Available on SSRN, June 2014, p.38

5. Studies describing what has happened to companies after the arrival of an activist fund have found a mixture of effects: increased divestiture, decreased acquisition activity, higher probability for the targeted firm being sold out, lower cash balances, higher payout ratios, greater leverage, higher CEO turnover and lower CEO compensation, reduced investment, "improved" return on assets (ROA) and improved ratio of enterprise "market" value to its book value (Tobin's q). But these effects are not linked to specific hedge fund strategies and, though often seen as positive by researchers, it remains unclear whether companies and their shareholders have really benefited from, or been harmed by, these effects (Bebchuk, Brav and Jiang, 2013, 2015; Gow et al., 2014; Goodwin, 2014; Briggs, 2007; Gillan and Starks, 2007).

6. Finally, too many of the studies aiming to show statistical relationships between activism and company performance have applied the standard analytics in the field of financial economics from which they originate (e.g. Bebchuk et al; 2013, 2015; Brav et al, 2008, 2009, 2013; etc.); the data collected is treated with multivariate statistics bringing together all variables plus dozens or hundreds of dummy variables. The results, statistically significant here and there, leave much room for interpretation and a nagging feeling that the analysis has managed to obfuscate rather than clarify relationships. (See Epstein and King, 2002; Lipton, 2013; Strine Jr., 2014; Allaire and Dauphin, 2014a; 2014b; 2015; Coffee and Palia, 2014).

To cope with several of these shortcomings, we have designed a study focusing on activist events of the **years 2010 and 2011**. These events are close enough in time to capture the contemporary tactics and objectives of activist funds. Yet, these two years allow us to monitor what happened at target companies for some three years afterwards.

Specifically, we are pursuing a number of research objectives:

- Describe the contemporary tactics and objectives of activist hedge funds as well as the actions taken by targeted companies as a result of their intervention;
- Explore the consequences of activism over time when compared to a random sample of firms with similar characteristics at the time of intervention (effects on operational performance and share price returns);
- Analyze the singularities associated with salient sub-groups of targeted firms.

#### Methodology

The WSJ-FactSet Activism Scorecard lists 461 cases of activism for the years 2010-2011. We eliminated the "activist campaigns" undertaken by individuals, by labor unions, by corporations, by named stockholder groups, by public pension funds, or other stakeholders. The sample was thus reduced to 342 activist campaigns. Then, we took out the 52 cases where the targeted entity was a *closed-end fund*. The objectives and dynamics of these campaigns differ from the typical hedge fund activism. Finally, some 24 companies in the sample were targeted by more than one hedge fund in the same year, for a total of 55 campaigns. Therefore, our final sample is comprised of **290** campaigns by **165** activist hedge funds targeting **259** firms.

Table 2 maps out how and why the original 461 cases became 259 hedge fund campaigns, each targeting a single company.

|   | 2010 | 2011 | Total |
|---|------|------|-------|
| WSJ-FactSet Activism Scorecard                | 219  | 242  | 461   |
| Eliminate Campaigns by Other Types:           |      |      |       |
| Individuals                                   | (22) | (25) | (47)  |
| Labor Unions                                  | (2)  | (5)  | (7)   |
| Corporations                                  | (3)  | (2)  | (5)   |
| Public Pension Funds                          | (2)  | (1)  | (3)   |
| Other Block Holders                           | (31) | (23) | (54)  |
| Mutual Fund Managers                          | 0    | (3)  | (3)   |
| Total campaigns by hedge funds                | 159  | 183  | 342   |
| Target is a closed-end fund                   | (22) | (30) | (52)  |
| Campaigns by hedge funds against corporations | 137  | 153  | 290   |
| Multiple campaigns against a single target    | (22) | (9)  | (31)  |
| Unique targets                                | 115  | 144  | 259   |

TABLE 2 Sample selection process

These 259 companies belonged to a diverse set of industries as shown in Table 3. *The sample distribution by industry must be carefully considered when interpreting statistical results.* 

| Industry (NAICS 2-digits)   | Number<br>of firms | % of total sample |
|---|--------------------|-------------------|
| Mining (21)   | 6                  | 23                |
| Utilities (22)  | 3                  | 1.2               |
| Construction (23)   | 2                  | 0.8               |
| Manufacturing – Food, hoverage, textiles, clething, and leather (21)          | 2                  | 0.8               |
| Manufacturing – Poou, beverage, textiles, ciolining and reacher (S1)          | 0                  | 5.1               |
| Manufacturing – wood, paper, chemicals and plastics (32)                      | 34                 | 13.1              |
| Manufacturing – Metal, machinery, appliance and transportation equipment (33) | 53                 | 20.4              |
| Wholesale trade (42)  | 5                  | 1.9               |
| Retail trade (44-45)  | 10                 | 3.9               |
| Transportation and warehousing (48-49)  | 2                  | 0.8               |
| Information (51)  | 32                 | 12.4              |
| Finance and insurance (52)  | 47                 | 18.1              |
| Real estate rental and leasing (53)   | 14                 | 5.4               |
| Professional, Scientific, and Technical Services (54)                         | 14                 | 5.4               |
| Administrative, Support, Waste Management and Remediation Services (56)       | 4                  | 1.5               |
| Health Care and Social Assistance (62)  | 8                  | 3.1               |
| Arts, Entertainment, and Recreation (71)                                      | 3                  | 1.2               |
| Accommodation and Food Services (72)  | 10                 | 3.9               |
| Other Services (except Public Administration) (81)                            | 4                  | 1.5               |
| Total   | 259                | 100%              |

TABLE 3 Firms by industry within activist sample

We relied on Compustat for the financial data related to the targeted firms. To fill in missing data in Compustat, we retrieved the information directly from the SEC filings of targeted firms. Our focus is to map out what has happened to the performance of these targeted companies.

It is worth pointing out that several published studies on hedge fund activism (see Table 1 above) are based on a number of events very close to the top number in Table 2, which means that many events were included in these studies that are not truly cases of hedge fund activism.

| TABLE 4                               |           |  |  |
|---------------------------------------|-----------|--|--|
| Five Most Active Hedge Funds          |           |  |  |
| Hodgo Eundo                           | Number of |  |  |
| neuge rulius                          | campaigns |  |  |
| Stillwell Value LLC                   | 19        |  |  |
| Ramius/Starboard Value LP             | 17        |  |  |
| Icahn Associates Corp.                | 16        |  |  |
| Arcadia Capital Advisors LLC          | 9         |  |  |
| Pershing Square Capital Management LP | 6         |  |  |

The better known hedge funds show up again in our sample as the most active players, five of them accounting for 67 of the 259 targeted firms. (Table 4)

#### Description of our sample of activist events

Numerous studies have described the gamut of stated objectives pursued by hedge funds as well as the variety of tactics used to achieve them (e.g. Bratton, 2007, 2010; Brav *et al.*, 2008; Brav *et al.*, 2009; Greenwood and Schor, 2009; Becht *et al.*, 2014). Table 5 shows the diversity of objectives in our sample. Getting the company sold or some assets spun off is clearly the dominant objective. It is followed by change in governance/getting their people on the board and change in payout policy (basically getting the company to buy back its shares or pay some special dividend).

| TABLE 5                                   |      |      |       |            |               |  |
|---|------|------|-------|------------|---------------|--|
| Activist Hedge Funds Stated Objectives    |      |      |       |            |               |  |
|   | 2010 | 2011 | Total | % of cases | % successful* |  |
| Sell the company or asset restructuration | 36   | 44   | 80    | 30.89%     | 70.00%        |  |
| Governance structure or board change      | 29   | 45   | 74    | 28.57%     | 62.16%        |  |
| Change in payout policy                   | 19   | 26   | 45    | 17.37%     | 91.11%        |  |
| Cost reduction                            | 9    | 6    | 15    | 5.79%      | 66.67%        |  |
| Omnibus                                   | 5    | 11   | 16    | 6.18%      | 87.50%        |  |
| Other                                     | 11   | 5    | 16    | 6.18%      | 62.50%        |  |
| Undisclosed or vaguely described          | 6    | 7    | 13    | 5.02%      | 69.23%        |  |
| Number of interventions                   | 115  | 144  | 259   | 100.00%    | 71.81%        |  |

\*"Successful" refers to the fact that the company announced it was taking steps to implement the objective stated by the activist hedge fund. In several cases however, as we shall see below, the company did not, could not, achieve the implementation of the objective sought by the hedge fund.

Activist hedge funds seek to achieve a quick and substantial stock price appreciation (Bratton and Wachter, 2015); to achieve their objectives, they put forth a variety of tactics which often brings them in conflict with the management and the board of directors of targeted companies. Table 6 lists the tactics employed by the activists in 2010 and 2011.

The first two tactics may be viewed as non-hostile (communicate with the board or the management of the targeted firm; reach a private agreement for the activist to be represented on the board) while the other tactics are surely hostile (Gantchev 2013).

In many instances, activist hedge funds list several tactics so we retained the most "hostile" tactic to classify them. On that basis, 75.29% of the interventions could be considered hostile (sum of tactics 3 to 7 in Table 6), and that the most frequent tactic employed by activist hedge funds is to publicly criticize the company, the board or the management, either through a letter to shareholders, a press release or directly through a Schedule 13D filing.

| Tactics Used by Activist Hedge Funds               |      |      |       |            |
|--|------|------|-------|------------|
|  | 2010 | 2011 | Total | % of cases |
| 1. Communicate with board/management               | 22   | 23   | 45    | 17.37%     |
| 2. Seek board representation without confrontation | 10   | 9    | 19    | 7.34%      |
| 3. Publicly criticize the company                  | 31   | 42   | 73    | 28.19%     |
| 4. Use the threat of proxy contest or legal action | 13   | 27   | 40    | 15.44%     |
| 5. Launch a proxy fight                            | 32   | 33   | 65    | 25.10%     |
| 6. Sue the company                                 | 1    | 4    | 5     | 1.93%      |
| 7. Make an unsolicited/hostile offer               | 6    | 6    | 12    | 4.63%      |
| Number of interventions                            | 115  | 144  | 259   | 100.0%     |

TABLE 6 Tactics Used by Activist Hedge Funds

Table 7 shows that activists were successful in some 72% of cases in achieving partially or completely their objectives, particularly so when they behaved in a hostile manner."

## TABLE 7Success Rate of Activist CampaignsBy Tactic Employed<sup>†</sup>

| % Successful |  |
|--------------|--|
| 57.78%       |  |
| 58.90%       |  |
| 85.00%       |  |
| 83.08%       |  |
| 20.00%       |  |
| 75.00%       |  |
| 71.81%       |  |
|              | % Successful           57.78%           58.90%           85.00%           83.08%           20.00%           75.00% <b>71.81%</b> |

<sup>†</sup>The tactic labelled "Seek board representation without confrontation" is only accounted for when successful, because unsuccessful attempts are not publicly known, and thus fall into the other categories. For that reason, this tactic was withdrawn from this table.

As per our Table 8, the activists in our sample have held the shares of targeted company for a median period of 458 days and on average for 527 days (or about a year and a half).

TABLE 8

| Holding Period after Announcement (days)<br>for Concluded Endeavours |      |      |       |  |
|--|------|------|-------|--|
| Centile  | 2010 | 2011 | Total |  |
| 25 <sup>th</sup>   | 203  | 181  | 183   |  |
| 50 <sup>th</sup>   | 410  | 479  | 458   |  |
| 75 <sup>th</sup>   | 785  | 774  | 784   |  |
| 90 <sup>th</sup>   | 1361 | 1019 | 1069  |  |
| Mean   | 546  | 507  | 527   |  |

N=200; as of April 2015, activists were still holding a stake (or we were unable to track an official exit date) in 59 firms of the sample (16 in 2010 and 43 in 2011). Some of these activist hedge funds may have exited without leaving trace, but it is fair to assume that a good number of them were still holding a stake in the targeted firms in April 2015. The median holding period shown above understates somewhat the actual holding period.

Their stake in the equity of the targeted companies at the time of their announcement represented some 9% on average of total outstanding common shares (Table 9).

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| Stake Ownership at Announcement (%) |       |       |       |  |  |
|-------------------------------------|-------|-------|-------|--|--|
| Centile                             | 2010  | 2011  | Total |  |  |
| 25 <sup>th</sup>                    | 5.55  | 5.18  | 5.30  |  |  |
| 50 <sup>th</sup>                    | 9.06  | 7.20  | 7.70  |  |  |
| 75 <sup>th</sup>                    | 12.42 | 9.60  | 10.09 |  |  |
| 90 <sup>th</sup>                    | 18.33 | 14.50 | 16.48 |  |  |
| Mean                                | 10.44 | 7.90  | 9.05  |  |  |

Note: the stake was undisclosed for 60 of the 259 cases because it was below the 5% threshold; as the actual percentage of these stakes is unknown, they were excluded from the mean calculation. But if all the undisclosed cases are included, the median, which can be computed, merely drops from 7.70% to 7.10%. It is noteworthy that 39% of the firms in the largest quintile (5<sup>th</sup> quintile by market capitalization) were targeted with a stake ownership below 5% (median of 6.04%), while only 19% of the 80% remaining firms were targeted with a stake ownership below the 13D threshold.

#### A matched random sample

To calibrate the actions and performance of these 259 targeted companies, we have set up *a* random sample of 259 companies selected to match the targeted companies at year "t" in

*terms of industry classification and market value*<sup>3</sup>. Tables 10, 11, 12 and 13 present statistics that clearly show the close fit between the random sample and the set of targeted companies at time=t, the year activists targeted these specific companies.

Although the activist hedge funds targeting large companies get lots of media coverage, it appears from our study, and as reported in several other studies (Klein and Zur, 2009; Brav *et al.*, 2008; Greenwood and Schor, 2009; Aslan and Maraachlian, 2009; Boyson and Mooradian, 2011; Gantchev *et al.*, 2014), that the median company targeted by activists is fairly small (market cap=\$148M; revenues=\$201 M).

| TABLE 10                             |                      |                 |  |  |
|--------------------------------------|----------------------|-----------------|--|--|
| Median results of a set of de        | escriptive variables | at t=event year |  |  |
| for the targeted fire                | ms and the random    | sample          |  |  |
|                                      |                      |                 |  |  |
|                                      | Activist sample      | Random sample   |  |  |
|                                      | median               | median          |  |  |
| Market Cap (M\$)                     | 148.49               | 150.91          |  |  |
| Total Assets (M\$)                   | 412.68               | 314.26          |  |  |
| Revenues (M\$)                       | 201.00               | 107.68          |  |  |
| ROS                                  | 0.0321               | 0.0484          |  |  |
| ROA                                  | 0.0350               | 0.0685          |  |  |
| ROE                                  | 0.0159               | 0.0750          |  |  |
| Tobin's Q                            | 1.1770               | 1.5538          |  |  |
| 1-yr Share price $return^{^\dagger}$ | -0.0094              | 0.0075          |  |  |

<sup>+</sup>From Dec 31, year t-1 to Dec 31, year t

Not only are many of the targeted companies fairly small but, as shown in Table 11, a significant number of them are not traded on either the NYSE or Nasdaq but merely trade over the counter (the so-called "pink sheets")

<sup>&</sup>lt;sup>3</sup> It has become standard procedure to calculate «propensity scores» to establish the best match between a nonrandomized sample and a randomized control sample (Rosenbaum and Rubin, 1983). In this case, it would call for the constitution of a random sample which, in terms of its characteristics, corresponds as closely as possible to the characteristics of firms which were targeted by hedge funds. However, as we saw, the objectives sought by hedge funds are varied, often subjective, and do not correlate in many cases to specific financial data (Table 14). The heterogeneity of factors in activism and the methodological challenges it induces has been well documented (Goranova and Ryan, 2014). We do believe that the match observed in Tables 10, 11, 12 and 13 is as close a match as could be obtained.

| Exchange or Market Where Shares of Targeted Firms and<br>Random Sample Firms Were Traded on December 31 of<br>the Year Preceding Initial Investment by Activist Hedge Funds |        |          |  |  |  |
|---|--------|----------|--|--|--|
|   | % of   | % of     |  |  |  |
|   | random | targeted |  |  |  |
|   | firms  | firms    |  |  |  |
| New York Stock Exchange   | 28.57% | 27.80%   |  |  |  |
| Nasdaq  | 55.99% | 57.53%   |  |  |  |
| OTC Bulletin Board/Pink Sheets 15.44% 14.67%  |        |          |  |  |  |

# TABLE 11

Our random sample offers a near perfect match in this respect. Similar characteristic were found by Krishnan, Partnoy and Thomas (2015) in their sample where 64.5% of the firms were listed on the Nasdaq. Klein and Zur (2009) found that 52.3% of the firms targeted by activist hedge funds were listed on the Nasdaq, and almost 10% of them were traded through OTC bulletin/pink sheets.

Table 12 shows the characteristics of targeted firms per quintile of market cap, while Table 13 provides the same information for our random sample. The very different profiles of firms in each quintile in terms of operating performance (ROA, ROE, Tobin's Q) or stock market performance mean that mixing all of them to come up with some general conclusion is very hazardous.

In both the Targeted sample and the random sample, the Q1 and Q2 firms are very small, have low Tobin's Q and/or poor one-year share price performance. To the extent that these are the factors motivating hedge fund attacks, clearly the random sample firms would have been as likely to be targeted as the firms which were actually targeted. As for the Q5 firms, both the random sample ones and the Targeted ones show good operating performance and solid oneyear stock-price performance. Whatever attracted hedge funds to these companies, their profile is not significantly different than the profile of the Q5 firms in our random sample<sup>4</sup>.

<sup>&</sup>lt;sup>4</sup> Q1 to Q4 were bounded intervals for the random selection process, while Q5 was only left-bounded. This resulted in firms of slightly smaller size at the median level for Q5 in the random sample, mostly because of a larger dispersion. We do not believe that such a difference, for firms of larger size, has any incidence on the interpretation of the results in this study. The average market capitalization at campaign date for the random sample was \$6.8B, almost two times the median shown in Table 13.

| for the <i>targetea jirms</i> , per quintile <i>of market cap</i> |        |         |         |         |         |
|---|--------|---------|---------|---------|---------|
|   | Q1     | Q2      | Q3      | Q4      | Q5      |
| Market Cap at campaign date(M\$)                                  | 21.0   | 55.3    | 148.3   | 477.3   | 5,119.6 |
| Total Assets (M\$)  | 55.1   | 128.1   | 322.5   | 720.2   | 5,570.8 |
| Revenues (M\$)  | 18.5   | 71.3    | 198.4   | 690.2   | 4,180.4 |
| Number of employees   | 87     | 220     | 500     | 1,576   | 10,500  |
| ROA   | 0.0337 | 0.0088  | -0.0024 | 0.0066  | 0.0776  |
| ROE   | 0.0116 | -0.0049 | -0.0016 | 0.0110  | 0.0563  |
| Tobin's Q   | 0.8026 | 1.0336  | 1.2151  | 1.2377  | 1.6190  |
| 1-yr Share price return $^{\dagger}$                              | 0.0714 | -0.1520 | -0.0702 | -0.0250 | 0.1593  |

TABLE 12 Median results of a set of descriptive variables at t-1 for the *targeted firms*, per quintile *of market cap* 

<sup>+</sup>From Dec 31, year t-1 to Dec 31, year t

| TABLE 13  |
|---|
| Median results of a set of descriptive variables at t-1 |
| for the random sample firms, per quintile of market cap |

|                                      | Q1      | Q2      | Q3      | Q4     | Q5      |  |  |
|--------------------------------------|---------|---------|---------|--------|---------|--|--|
| Market Cap at campaign date(M\$)     | 12.6    | 55.2    | 150.7   | 533.5  | 3,642.0 |  |  |
| Total Assets (M\$)                   | 28.6    | 88.7    | 143.0   | 398.5  | 4,558.5 |  |  |
| Revenues (M\$)                       | 17.2    | 43.1    | 84.9    | 398.4  | 2,442.7 |  |  |
| Number of employees                  | 93      | 168     | 316     | 1,074  | 5,843   |  |  |
| ROA                                  | 0.0149  | 0.0598  | 0.0481  | 0.0695 | 0.0761  |  |  |
| ROE                                  | -0.0009 | 0.0367  | 0.0684  | 0.0490 | 0.0901  |  |  |
| Tobin's Q                            | 0.9493  | 1.2060  | 1.6159  | 2.0987 | 1.8500  |  |  |
| 1-yr Share price return $^{\dagger}$ | -0.1429 | -0.0359 | -0.0136 | 0.1552 | 0.0596  |  |  |

<sup>+</sup>From Dec 31, year t-1 to Dec 31, year t

Clearly, the objectives and motives for targeting firms vary by quintile, as shown in Table 14. The smaller targeted firms of Q1 and Q2 are pushed to buy-back shares and make some board change. The larger companies of Q4 and Q5 are targeted mainly for a sale or a spin-off of assets, with some governance/board claims as a preliminary step.

| TABLE 14  |
|---|
| % of Firms Targeted by Activist Hedge Funds According to the Stated Objectives, |
| by quintiles of market capitalization at intervention date $^{\dagger}$         |

| by quintiles of market capitalization at intervention date |         |         |         |         |         |         |
|--|---------|---------|---------|---------|---------|---------|
|  | Q1      | Q2      | Q3      | Q4      | Q5      | Overall |
| Sell the company or asset restructuration                  | 19.61   | 23.08   | 32.69   | 34.62   | 44.23   | 30.89   |
| Governance structure or board change                       | 23.53   | 42.31   | 28.85   | 28.85   | 19.23   | 28.57   |
| Change in payout policy                                    | 29.41   | 15.38   | 19.23   | 15.38   | 7.69    | 17.37   |
| Cost reduction   | 1.96    | 9.62    | 5.77    | 9.62    | 1.92    | 5.79    |
| Omnibus  | 5.88    | 5.77    | 3.85    | 7.69    | 7.69    | 6.18    |
| Other  | 17.65   | 1.92    | 3.85    | 0.00    | 7.69    | 6.18    |
| Undisclosed or vaguely described                           | 1.96    | 1.92    | 5.77    | 3.85    | 11.54   | 5.02    |
| Total  | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |

<sup>+</sup> Due to rounding, percentages may not always add up to 100%

These features of hedge fund activism must be kept well in mind when statistical analyses are carried out. For instance, the presence of a few very large companies in the sample translates in mean numbers that are not descriptive of the whole sample. Similarly, the very small size of some companies, often penny stocks traded over the counter, makes for very large variations in their operating performance and stock prices with the slightest addition to volume or improvement of performance (often in the 1,000%). Computing the mean improvement in performance will be unduly influenced by these very small companies.

Therefore, we shall make abundant descriptive use of medians throughout this paper, as it is notably less influenced by extreme values. We shall report means on occasions but always with the above caveat in mind.

We have made a deliberate decision to keep the data analysis simple so that the reader who is not proficient in statistical analysis can get a real sense of the results. Not much is lost by not resorting to the standard machinery of multivariate statistics in situations like the present one where multiple dynamics are at play; too often these sorts of "complex" analyses lead to an over-simplification of the phenomenon, a disconnect between the original data and the results produced by these "sophisticated" analyses and a nagging feeling that the analysis has managed to obfuscate rather than clarify relationships.

#### Actions taken by boards and management after the arrival of an activist hedge fund

Whether at the urging of hedge funds (probable) or pre-emptively (possible) or as a result of their own analysis (doubtful), targeted companies show evidence of having taken singularly different actions than those observed in a comparable random sample of companies.

#### Survivorship

Hedge funds targeted 80 companies (see Table 5) with the explicit aim of getting the company sold or merged or some part of it spun off. Clearly, this intention has translated in far greater number of disappearing companies in the activist sample, as illustrated in Figure 2 and detailed in Table 15. The random sample shows a "normal" attrition rate of some 15% over four years but the number of firms in the activist sample drops by some 37% in the same time period.



Some 81 companies were sold or merged over the four years after the arrival of an activist; in many cases the sale or merger was consummated very quickly. This number compares to the 36 companies of the random sample sold or merged during the same period. In addition, activists often call on management to sell off and liquidate *"unprofitable business units and product lines so that they no longer appeared on the balance sheets as idle or unproductive assets"* (Welker and Wood, 2011: S63); in our sample, 15 targeted companies sold off some assets and 7 did spin off a division.

| TABLE 15<br>Survivorship of the Firms<br>Activist and Random Sample |               |     |     |     |      |  |  |  |
|---|---------------|-----|-----|-----|------|--|--|--|
|   | t: Event Year | t+1 | t+2 | t+3 | t+4* |  |  |  |
| Activist Sample   |               |     |     |     |      |  |  |  |
| Firms, beginning of year  | 259           | 244 | 206 | 191 | 174  |  |  |  |
| Merged or sold  | 13            | 34  | 12  | 13  | 9    |  |  |  |
| Bankrupt, liquidated or delisted                                    | 2             | 4   | 3   | 4   | 1    |  |  |  |
| n   | 244           | 206 | 191 | 174 | 164  |  |  |  |
| Random Sample   |               |     |     |     |      |  |  |  |
| Firms, beginning of year  | 259           | 259 | 254 | 235 | 226  |  |  |  |
| Merged or sold  | 0             | 4   | 17  | 8   | 7    |  |  |  |
| Bankrupt, liquidated or delisted                                    | 0             | 1   | 2   | 1   | 1    |  |  |  |
| Firms, end of year  | 259           | 254 | 235 | 226 | 218  |  |  |  |

\*As of April 2015 for year t+4 of the 2011 samples.

#### R&D expenses

The median expenditures for research and development basically stalled then dropped before turning up in year t+3, *a time when most activists have sold their stakes in the equity of the company.* Meanwhile, median R&D expenditures for the random sample of firms did increase by over 20% (Figure 3).





#### Asset level

The same pattern is observed with total assets (Figure 4), which captures the rate of investment/disinvestment of companies. Firms targeted by hedge funds basically stall in terms of total assets, with some resumption of growth by year t+3 (as most hedge funds have vacated the place). At that point in time, the firms in the random sample have increased their assets by more than 30%.



#### FIGURE 4 Median Results, Total Assets (t-2 = 100) Surviving Firms

#### Number of employees

Firms targeted by activists have barely maintained the level of employment while firms in the random sample were increasing employment by some 15% over the same period of time (Figure 5).



FIGURE 5 Median results, Number of employees (t-2=100) Surviving Firms

#### Number of shares outstanding

Similarly, the number of shares outstanding remains constant, with a small increase in the third year (Figure 6). However, a sharp drop in shares outstanding occurs in the sub-group of firms targeted for an increase in pay-out. Meanwhile, the number of shares in the random sample of firms increases by more than 9%.





#### Turnover rate of CEOs

The data show a large difference in the rate of CEO turnover between the activist sample and the random sample, particularly beginning in the year when activists show up (Figure 7). The rate returns to "normal" at t+3.



#### Turnover rate of CFOs

As with CEOs, the CFOs of targeted companies are replaced at a high rate immediately upon activists showing up as shareholders and goes back to "normal" rate by t+3 (Figure 8).



FIGURE 8 FIGURE 8

#### Conclusions on actions taken

As a broad generalization, which will be refined later on when we examine the results in relation with the stated objectives of hedge funds, the Targeted firms, as compared to a random sample, show a much higher rate of companies sold or merged, as well as a rate of CEO and CFO change which far exceeds what is observed in a random sample of comparable firms.

Our data also shows that the median Targeted firm reports a reduced or stalled R&D and total assets, no increase in employment and a slightly decreasing shareholder base, all of this in surviving firms.

The issue of course is whether the regimen advocated by activists has made targeted firms more efficient and healthier, and boosted their stock price.

#### **Operating performance**

Several studies (Bebchuk et al., 2013, 2015; Clifford, 2008; Gow et al., 2014; Becht et al., 2009; Goodwin, 2014; Fos, 2013) of hedge fund performance examine their impact on three operating ratios: return on assets (ROA), Tobin's Q (the ratio of the market value of the company to its book value, sort of) and return on shareholders' equity (ROE). Let's examine these operating ratios for our double sample.

Figure 9 maps out the results for ROA. The activist sample of companies is showing some slight improvement in ROA when compared to the year before their arrival (t-1). The random sample's median ROA remains pretty constant but is still higher at year t+3 than the activist sample's ROA.



But this "improvement" in ROA is not found in all quintiles of the Targeted firms. Figure 10 tells us that the ROA performance for firms in Quintile 5 and Quintile 2 has deteriorated slightly while the Q4 firms have seen their ROA move up substantially at t+1.



As for Tobin's Q, the activist sample shows improvement at year t+2 when it reaches the level of Tobin's Q observed for the random sample (Figure 11).



**FIGURE 10** 

Figure 12 presents the results for Tobin's Q per quintile. It shows the same basic pattern for all quintiles.



FIGURE 12 Tobin's Q, Median results for the targeted firms, per quintile (Surviving firms)

Digging into the data to understand this improvement of Tobin's Q at year t+2, we find a significant relationship with the level of assets; that is, the increase in Q correlates with a decrease in the book value of assets (equity plus liabilities) [r=-0.24; p<0.001)].

As Tobin's Q is computed as the ratio of the market value of assets (actually, in practice, market value of equity plus book value of liabilities) divided by the book value of assets, any decrease in the denominator, keeping the market value of the equity constant, will improve Q. Cutting down on capital expenditures, selling some assets, buying back shares will produce this result, as we find out in this study (See Figure 4).

Indeed, a number of companies were targeted where the intent of the hedge fund was to get the company to buy back its shares. Some 63 companies did buy back some of their shares. Any share buy-back will decrease the book value of equity, more so if bought back at a price higher than the book value per share. We find a significant correlation (r=-0.33; p<0.001) between a decrease in the number of shares in circulation and increase in Tobin's Q for these 63 firms.

As for ROE, the same pattern is observed as with ROA (Figure 13). There is a systematic improvement each year although the median of the activist sample does not quite match the performance of the random sample. Again, companies which bought back some of their shares thus decreasing the book value of their equity will show improved ROE.





#### Conclusions on operating performance

One might conclude that, under the prodding of activist hedge funds, targeted firms have improved significantly their operating performance. But the improvements mapped out in Figures 9, 11 and 13 largely reflect the stalled level of assets and the reduced base of shareholders' equity from share buybacks for a good number of companies.

Indeed, these operating metrics, although widely used, are not reliable measures of a firm's true performance as they can be improved by selling assets, buying back shares, limiting or reducing investments. But let's illustrate this point more tangibly by examining the goings-on at one firm close to the median of the "targeted firms".

#### The Median Firm... from the 2011 sample – The DSP Group

Starboard Value announced on August 22, 2011 that it had taken a 9.1% position in the common equity of DSP Group (*«a leading global provider of wireless chipset solutions for converged communications»*). The fund's stated objective was classified as "omnibus": in its view, the board should immediately retract the poison pill (governance related objective); the company

should reduce spending on non-core growth (cost reduction) and should hire an investment bank to explore strategic alternatives, including a sale (sell the company).

Starboard in its letter to management states: "*The current strategy of investing heavily in research and development in pursuit of revenue growth in non-core products has failed to produce positive results and has led to significant deterioration in overall profitability.*" (Letter to the CEO and board of directors of DSP Group from Starboard Value, August 22, 2011)

The management of DSP Group fought hard against the hedge fund. But, in March 2012, to placate the hedge fund somewhat, DSP announces a share buy-back program and agrees to bring to its board two nominees of Starboard. As the stock price of DSP does not move up (in fact by December 31<sup>st</sup> 2012, it is down almost 10% from the price on August 22<sup>nd</sup> 2011), Starboard in 2013 launches a full-fledged proxy fight to have a majority of its nominees sit on the board.

Despite the support of all three proxy advisory firms *for the management nominees,* the company made a deal with Starboard whereby it would get four of its nominees on the board. While fighting the good fight against Starboard, taking the fund to task for its myopia on R&D expenses and so forth, management is, willy-nilly, implementing some of the actions that the hedge fund is advocating. Our Table 16 shows clearly the sharp drop in R&D expenses in 2012 before the hedge fund had acquired much formal leverage over the management of the company.

|  | Dec 31, |
|--|---------|---------|---------|---------|---------|
|  | 2010    | 2011    | 2012    | 2013    | 2014    |
|  | (t-1)   | (t)     | (t+1)   | (t+2)   | (t+3)   |
| Sales (t-2=100)                              | 106.27  | 91.36   | 76.36   | 71.19   | 67.41   |
| R&D (t-2=100)                                | 99.00   | 94.83   | 75.76   | 62.34   | 59.61   |
| Assets (t-2=100)                             | 101.27  | 89.21   | 84.26   | 87.49   | 86.99   |
| Employees (t-2= 100)                         | 101.22  | 96.58   | 77.51   | 72.62   | n.a.    |
| Shares (t-2=100)                             | 101.54  | 98.26   | 94.64   | 97.59   | 94.06   |
| ROS <sup>†</sup>                             | -0.0325 | -0.0836 | -0.0492 | 0.0179  | 0.0252  |
| AT   | 1.3540  | 1.2280  | 1.1194  | 1.0431  | 0.9729  |
| ROA (ROS*AT)                                 | -0.0440 | -0.1026 | -0.0551 | 0.0187  | 0.0245  |
| Tobin's Q                                    | 1.1327  | 0.7888  | 0.8778  | 1.4722  | 1.5969  |
| ROE  | -0.0446 | -0.1029 | -0.0553 | 0.0185  | 0.0245  |
| Market Cap at year end (M\$) <sup>++++</sup> | 189.28  | 117.24  | 124.84  | 217.02  | 234.14  |
| Cash & STE <sup>†††††</sup> per share        | 2.7496  | 2.1715  | 1.9381  | 1.6801  | 1.5169  |
| CASPR <sup>++++++</sup>                      | n.a.    | -0.3599 | -0.1588 | 0.0605  | 0.0750  |
| Economic profit (ROA*Assets) (M\$)           | -9.80   | -20.12  | -10.20  | 3.59    | 4.68    |

TABLE 16 Mapping of a Firm from the Activist Sample: The DSP Group

<sup>†</sup> ROS = Net Operating Profit After Tax (NOPAT)/Sales

<sup>++</sup> AT = Revenues/(average shareholders' equity + average interest-bearing debt)

\*\*\*\* ROE = Net Income/average shareholders' equity

\*\*\*\*\* On August 22, 2011, the announcement date, the market cap was 152.95

\*\*\*\*\*\*Cash & STE = Cash and short-term equivalents

\*\*\*\*\*\*CASPR = Compounded Annual Stock Price Return, from Dec 31 year t-1 to Dec 31 year t+n

The market value of the company has indeed improved but management claims it is the result of programs it would have implemented irrespective of the hedge fund's agitation. More likely, as other funds were showing a strong inclination to side with Starboard Value in the 2013 proxy fight, thus giving the hedge fund control over the company, management had few options but to make a deal and act along the lines of the wishes of the hedge fund. Be that as it may, the company is now a much smaller company in terms of sales, assets, employees; it spends barely more than half on R&D as compared to three years earlier; whether it is in the best position to cope with its long-term challenges remains to be seen but the stock market, in its infinite wisdom, likes what was done to the company. [Although by August 5<sup>th</sup> 2015, the market value of the company had dropped to \$183 million, essentially the value of the company at t-1 (i.e. the year before the activist intervention.)]

At any rate, Starboard provides a good example of how activist hedge funds make money by timing well their entry and exit (see Figure 14). By December 2014, Starboard had sold most of its shares of DSP; it had done very well indeed for its fund and still has four of its nominees on the board of DSP (out of 9 members).

**FIGURE 14** 



**DSP Group Historical Share Price** 

This case, a fairly typical one, shows the complexity of assessing the impact of hedge fund activism in the long term. Each situation is somewhat different; the interaction, the chess match, between the company's management and the hedge fund is made of moves and counter-moves. The hedge fund's goal is to make money as quickly as possible and it will stick around just long enough to achieve a good rate of return. What happens to the company after their departure is of little concern to them. Typically, after the departure of the hedge fund, the management and the board of the company will assess the situation and resume managing the company for the longer term. That is, if the threat of another attack is not likely or imminent.

#### Stock market performance

Obviously, the main selling point for hedge fund activism is the claim that it generates high returns. But that statement is ambiguous. As we illustrated with the case of the DSP Group, activist hedge funds, by timing their entry and exit of a stock, by using derivatives and leverage to enhance their yield, by benefiting from the "control" premium on getting companies sold off, may well achieve highly positive results.

For instance, Table 17 shows the large gains *realized by hedge funds* from getting targeted companies sold off.

| TABLE 17<br>Compounded Annual Return<br>to Activist Hedge Funds from<br>getting targeted firms sold off |        |  |  |  |  |
|---|--------|--|--|--|--|
| Centile   | %      |  |  |  |  |
| 25 <sup>th</sup>  | 15.47  |  |  |  |  |
| 50 <sup>th</sup>  | 32.76  |  |  |  |  |
| 75 <sup>th</sup>  | 73.91  |  |  |  |  |
| 90 <sup>th</sup>  | 155.23 |  |  |  |  |
| Mean $(n=74)^{\dagger}$   | 59.00  |  |  |  |  |

<sup>+</sup>81 firms were sold or merged. The terms of the transactions made it impossible to compile the data for 7 of these cases (e.g. exchange of shares, price paid in both shares and dollars, etc.)

Greenwood and Schor (2009) had already concluded that the returns of activist hedge funds were largely explained by the ability of activists to force target firms into a takeover.

That hedge funds may achieve high returns from their activities is not the issue, although that is the feature that brings so many pension funds and other institutional investors to channel money to these activists. Overall, what should concern society and all shareholders should be the operating and stock market performance of targeted companies.

Let's suppose one would, on December 31<sup>st</sup> of the year before activist hedge funds showed up (Dec. 31<sup>st</sup> 2009 for the 2010 cohort and December 31<sup>st</sup> 2010 for the 2011 cohort), have bought shares in all targeted companies and at the same time had purchased shares in all the

companies in our random sample. What would be the comparative performance of these two (unweighted) "portfolios" over the three years? That's a salient question.

We computed the share price returns by using three different methods: 1) the compounded annual returns for all firms still in the sample on December 31 in each of the three years following the intervention year [labeled *listed firms at year end*]; 2) the compounded annual returns at December 31 of the three years following intervention year, but only for the surviving firms at t+3, thus comparing the returns of the same companies over time [labeled *surviving firms*], and; 3) the compounded annual returns for all firms still in the sample on December 31 of the three years following intervention year, but factoring in the annualized returns of the firms sold during a given year<sup>5</sup> [labeled *all firms, even sold off*].

Table 18 presents the median results of these computations and in Table 19 the mean results. Overall, median results *for targeted and random companies* show that they were performing generally poorly and both improved significantly over the next years.

| Comparison of several methods |                          |        |                 |        |                          |        |
|-------------------------------|--------------------------|--------|-----------------|--------|--------------------------|--------|
|                               | Listed firms at year end |        | Surviving firms |        | All firms, even sold off |        |
|                               | Activist                 | Random | Activist        | Random | Activist                 | Random |
| From Dec 31, t-1 to           | sample                   | sample | sample          | sample | sample                   | sample |
| Dec 31, t:Event year          | -0.0094                  | 0.0075 | -0.0180         | 0.0135 | -0.0004                  | 0.0075 |
| n                             | 241                      | 255    | 161             | 219    | 246                      | 255    |
| Dec 31, t+1                   | 0.0091                   | 0.0205 | 0.0111          | 0.0257 | 0.0332                   | 0.0247 |
| n                             | 208                      | 250    | 161             | 219    | 238                      | 253    |
| Dec 31, t+2                   | 0.1007                   | 0.0728 | 0.0901          | 0.0730 | 0.1007                   | 0.0749 |
| n                             | 189                      | 229    | 160             | 219    | 205                      | 241    |
| Dec 31, t+3                   | 0.0906                   | 0.0704 | 0.0909          | 0.0722 | 0.1056                   | 0.0726 |
| n                             | 176                      | 220    | 159             | 218    | 188                      | 227    |

| TABLE 18                                     |
|--|
| Median results                               |
| <b>Compounded Annual Stock Price Returns</b> |
| Comparison of several methods                |

The mean performance of targeted companies after two years or three years *is not significantly different from the stock performance of a random sample of companies.* Neither "portfolio", because of their industry make-up, could match the performance of broad indices (Table 20).

The large difference in favour of the random sample at t=event year reflects the sensitivity of averages to a few extreme cases<sup>6</sup>.

<sup>&</sup>lt;sup>5</sup> But without re-investment of the proceeds of the sale; or assuming that the proceeds is re-invested in the portfolio of remaining targeted firms, which will lead to the same results.

<sup>&</sup>lt;sup>6</sup> Even after a standard winsorization process at the 1% and 99% level.

| Mean results         |                |             |                |         |              |              |
|----------------------|----------------|-------------|----------------|---------|--------------|--------------|
|                      | Compou         | nded Annua  | al Stock Price | Returns |              |              |
|                      | Con            | nparison of | several meth   | ods     |              |              |
|                      | Listed firms a | at year end | Survivin       | g firms | All firms, e | ven sold off |
|                      | Activist       | Random      | Activist       | Random  | Activist     | Random       |
| From Dec 31, t-1 to  | sample         | sample      | sample         | sample  | sample       | sample       |
| Dec 31, t:Event year | 0.0118**       | 0.1513      | 0.0023**       | 0.1787  | 0.0301*      | 0.1513       |
| n                    | 241            | 255         | 161            | 219     | 246          | 255          |
| Dec 31, t+1          | -0.0022        | 0.0408      | 0.0053*        | 0.0488  | 0.0328       | 0.0436       |
| n                    | 208            | 250         | 161            | 219     | 238          | 253          |
| Dec 31, t+2          | 0.0684         | 0.0721      | 0.0666         | 0.0826  | 0.0740       | 0.0787       |
| n                    | 189            | 229         | 160            | 219     | 205          | 241          |
| Dec 31, t+3          | 0.0816         | 0.0709      | 0.0857         | 0.0775  | 0.0909       | 0.0713       |
| n                    | 176            | 220         | 159            | 218     | 188          | 227          |

# **TABLE 19**

\*Difference between the means (activist-random, same year, same method) is statistically significant at the 5% level

\*\* Difference between the means (activist-random, same year, same method) is statistically significant at the 1% level

TABLE 20

| Compounded Annual Index Returns for the period $^{\dagger}$ t+1 to t+3 |       |       |       |  |  |  |  |
|--|-------|-------|-------|--|--|--|--|
|  | t+1   | t+2   | t+3   |  |  |  |  |
| S&P 500  | 0.064 | 0.114 | 0.133 |  |  |  |  |
| Dow Jones Industrial   | 0.072 | 0.106 | 0.118 |  |  |  |  |
| NASDAQ   | 0.069 | 0.135 | 0.160 |  |  |  |  |
| RUSSELL 2000   | 0.062 | 0.126 | 0.138 |  |  |  |  |
| Activist Sample <sup>**</sup>  | 0.033 | 0.074 | 0.091 |  |  |  |  |
| Random Sample <sup><math>++</math></sup>                               | 0.044 | 0.079 | 0.071 |  |  |  |  |

<sup>†</sup>Average return, weighted by the number of firms in the samples per year <sup>††</sup>Mean returns with the third method: all firms, even the ones that were sold off

Figure 15 shows that stock price performance also varies widely by quintile, with the 2nd and 3rd quintile showing the largest appreciation.



FIGURE 15

\*Where n varies from 0 to 3

To further capture the dynamics of stock price appreciation for our two samples, we computed the relationship between the stock price of each firm at t-1 (the year before the arrival of the hedge fund) and the stock price at t+3.

Table 21 shows that about a quarter of both samples had stock prices at t+3 which were inferior to their stock price at t-1, a very significant result.

About a third of both samples of companies had seen a doubling (or more) of their stock price in the same period. It is striking how the performance of the random sample matches the performance of targeted companies.

| TABLE 21<br>Distribution of firms by increase in market value*<br>Surviving firms |                              |                             |  |  |  |  |  |
|---|------------------------------|-----------------------------|--|--|--|--|--|
|   | Targeted<br>firms<br>(n=153) | Random<br>sample<br>(n=209) |  |  |  |  |  |
| ΔMV <100  | 28.10%                       | 23.44%                      |  |  |  |  |  |
| 100>=∆MV<110  | 5.88%                        | 4.31%                       |  |  |  |  |  |
| 110>=∆MV<125  | 5.23%                        | 6.22%                       |  |  |  |  |  |
| 125>=∆MV<140  | 6.54%                        | 8.61%                       |  |  |  |  |  |
| 140>=∆MV<175  | 15.69%                       | 14.35%                      |  |  |  |  |  |
| 175>=∆MV=<200   | 5.23%                        | 9.57%                       |  |  |  |  |  |
| ΔMV >200  | 33.33%                       | 33.49%                      |  |  |  |  |  |
| Total   | 100%                         | 100%                        |  |  |  |  |  |

\*(Market value at t+3/Market value at t-1) X 100

#### Stock market performance for different objectives of hedge funds

Table 5 has shown the very different objectives put forth by activist hedge funds as they make public their intentions.

#### A) Companies targeted for a sale

For instance, it shows that in some 80 cases, the activist hedge funds were urging a sale of the company or some asset restructuring. Table 22 shows the median characteristics of these 80 targeted companies. These were substantially larger companies than for the whole sample. It also shows that 33 of these companies were sold off (or 40%), 6 were the object of spin-off or asset restructuring. In 10 cases, the activist funds were still on board by the end of the study period.

| TABLE 22   |               |  |  |
|--|---------------|--|--|
| Median results of a set of descriptive var   | iables at t-1 |  |  |
| for the firms targeted with the obj  | ective        |  |  |
| "Sell the company or asset restructuration   | on" (n=80)    |  |  |
| Market Cap at campaign date(M\$)   | 308.4         |  |  |
| Total Assets (M\$)   | 810.5         |  |  |
| Revenues (M\$)   | 494.4         |  |  |
| Number of employees  | 1,950         |  |  |
| ROA  | 0.0409        |  |  |
| ROE  | 0.0093        |  |  |
| Tobin's Q  | 1.1569        |  |  |
| 1-yr Share price return $^{\dagger}$   | -0.0105       |  |  |
| Number of firms sold   | 33            |  |  |
| Number of firms who completed a spin-off<br>or sold significant assets (divisions) | 6             |  |  |
| Number of activists who still had a stake in the targeted firm at t+3              | 10            |  |  |

<sup>†</sup>From Dec 31, year t-1 to Dec 31, year t

However, actually 81 companies in our targeted sample were effectively sold off. Table 23 shows what were the objectives stated by activist hedge funds when they launched their campaign. Of course, as we already saw, some 33 had been clearly targeted for a sale; but for 48 other cases, different objectives stated by the activists eventually led to a sale of the company.

|   |    | % of firms targeted |                 |
|---|----|---------------------|-----------------|
|   | n  | with objective      | % of firms sold |
| Sell the company or asset restructuration | 33 | 41.25%              | 40.74%          |
| Governance structure or board change      | 17 | 22.97%              | 20.99%          |
| Change in payout policy                   | 12 | 26.67%              | 14.81%          |
| Cost reduction                            | 6  | 40.00%              | 7.41%           |
| Omnibus                                   | 4  | 25.00%              | 4.94%           |
| Other                                     | 5  | 31.25%              | 6.17%           |
| Undisclosed or vaguely described          | 4  | 30.77%              | 4.94%           |
| Total number of companies sold            | 81 |                     | 100.00%         |

 TABLE 23

 Stated Objectives for Targeted Firms that Were Eventually Sold of Merged

We have already examined the returns and impact on stock market performance of the companies which were sold off (see Tables 17, 18 and 19).

## *B)* The 75 companies where the activist hedge fund sought changes to governance structure or to the board

Hedge funds listing change to governance as their purpose ended up being unsuccessful a third of the times and managed to get board representation a quarter of the times (Table 24). They got the company or substantial assets sold in 18% of the cases (although this was not stated as their objective). Finally, they did get some changes in governance or the CEO replaced in a fifth of the cases.

|   |    | % of firms in |
|---|----|---------------|
| Final Outcome                                     | n  | sub-group     |
| Change to governance structure                    | 10 | 13.51%        |
| Company was sold*                                 | 9  | 12.16%        |
| Change of CEO                                     | 5  | 6.76%         |
| Assets were sold                                  | 4  | 5.41%         |
| Change to payout policy                           | 1  | 1.35%         |
| Company filed for bankruptcy                      | 1  | 1.35%         |
| Board representation (as the only public outcome) | 19 | 25.68%        |
| Activist was unsuccessful                         | 25 | 33.78%        |
| Total   | 74 | 100.00%       |

TABLE 24 Final Outcome of Campaigns where activist hedge fund sought changes to governance structure or to the board

\*Another 8 companies were also sold but not as a result of the campaigns of 2010 or 2011; these were classified as "unsuccessful"

However, as documented in Table 25, despite the "initiatives" fostered on them by hedge funds the stock market performance of these targeted companies was mediocre at best.

| TABLE 25<br>Median and mean share price annualized returns<br>Sub-group of firms where activist hedge fund sought |         |         |        |        |  |
|---|---------|---------|--------|--------|--|
| changes to governance structure or to the board (Listed firms method)   |         |         |        |        |  |
| t t+1 t+2 t   |         |         |        |        |  |
| Median  | -0.0699 | -0.0579 | 0.0332 | 0.0512 |  |
| Mean  | -0.0385 | -0.0371 | 0.0279 | 0.0381 |  |
| n   | 71      | 68      | 61     | 58     |  |

## *C)* The 45 companies where the activist sought to have them increase payout by buying back their shares or paying a special dividend.

Table 26 shows the statistics for the subset of 45 targeted firms where the objective of the hedge fund was to increase payout. These are quite small companies (median market cap of \$78 million and median revenues of \$49 million) showing fair operating results but with a poor Tobin's Q (0.90) and considerable cash on their balance sheet (some \$3.42 per share).

| TABLE 26<br>Median results of a set of descriptive variables at t-1<br>for all targeted firms and the subset of 45 firms<br>targeted with an objective of increasing payout |   |                        |  |  |  |  |
|---|---|------------------------|--|--|--|--|
|   | Activist  | Activist sample, only  |  |  |  |  |
|   | sample  | firms targeted with an |  |  |  |  |
|   | (Total  | objective of ∆ Payout  |  |  |  |  |
| N=259) policy (N=45)  |   |                        |  |  |  |  |
| Market Cap (M\$)  | 171.03  | 78.31                  |  |  |  |  |
| Total Assets (M\$)  | 374.15  | 326.87                 |  |  |  |  |
| Revenues (M\$)  | 189.21  | 48.68                  |  |  |  |  |
| ROS   | 0.0197  | 0.1056                 |  |  |  |  |
| ROA   | 0.0245  | 0.0403                 |  |  |  |  |
| ROE   | 0.0072  | 0.0224                 |  |  |  |  |
| Tobin's Q   | 1.1569  | 0.8986                 |  |  |  |  |
| Cash & Short-term equivalents per Share   | Cash & Short-term equivalents per Share 2.2760 3.4250 |                        |  |  |  |  |
| 1-yr Share price return <sup>†</sup>  | -0.0094   | 0.1120                 |  |  |  |  |

<sup>+</sup>From Dec 31, year t-1 to Dec 31, year t

Hence, the appeal for hedge funds to come on board and push for increasing payout to shareholders to boost share price. Did it work?

Table 27 shows a strong, sustained compounded annual share price return for the three years but it must be pointed out that the stock market performance of these companies for the year of the hedge fund's arrival was already quite strong (median 11.2%; mean 19.7%). Indeed the mean share price return drops from time=t to time=t+3.

It is unknown how their stock price would have behaved without a share buyback program.

| TABLE 27<br>Share Price Return for a subsample of firms targeted<br>with an objective of Δ Payout |              |        |        |        |  |  |
|---|--------------|--------|--------|--------|--|--|
| Dec. 31 Dec. 31 Dec. 31 Dec. 31   |              |        |        |        |  |  |
| From Dec. 31, year t-1 to   | t:Event year | t+1    | t+2    | t+3    |  |  |
| Median  | 0.1120       | 0.1292 | 0.1507 | 0.1416 |  |  |
| Mean  | 0.1967       | 0.1141 | 0.1265 | 0.1238 |  |  |
| n   | 45           | 45     | 42     | 41     |  |  |

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Note: to test whether the companies targeted with the objective of  $\Delta$  Payout had a strong stock market performance *before* the hedge fund's arrival, we computed the returns for 1 year up to 10 days before the intervention announce date (since most studies show that abnormal returns start building up in the 10 days before the announcement). We found a median return of 16.3% and a mean return of 17.6%, thus supporting our assertion, for the 40 firms for which data was available (5 firms made their IPO in the year preceding the activist intervention and were excluded from this calculation).

#### D) The performance of the 5 most active funds

The five most active hedge funds carried out some 67 campaigns against targeted firms. Compared to the overall sample, these activists tended to target larger firms and hold their position for a longer period of time (Table 28).

| TABLE 28   |        |         |
|--|--------|---------|
| Five Most Active Hedge Funds                     |        |         |
| Descriptive Statistics                           |        |         |
| Variables  | Median | Mean    |
| Stake ownership at announcement                  | 8.3%   | 8.7%    |
| Holding Period (days) <sup>†</sup>               | 511.5  | 609.7   |
| Market cap of target firms at announcement (M\$) | 206.4  | 2,563.8 |
| Tobin's Q of targeted firms at t-1               | 1.16   | 1.45    |
| ROA of target firms at t-1                       | 0.0379 | 0.0203  |

<sup>+</sup>In 27.3% of the cases, the activist hedge funds still had a stake in the targeted firm as of April 2015.

The stock market performance of the companies they targeted appears to have been better than that of other activists, significantly so in several cases, as reported in Table 29.

| Compounded Annual Stock Price Return (Listed Firms Method)<br>Compared to other activists and random sample |              |         |          |         |  |  |
|---|--------------|---------|----------|---------|--|--|
|   | Dec. 31      | Dec. 31 | Dec. 31  | Dec. 31 |  |  |
| From Dec. 31, year t-1 to   | t:Event year | t+1     | t+2      | t+3     |  |  |
| Top 5 Activists   |              |         |          |         |  |  |
| Mean  | 0.0937       | 0.0433  | 0.1377   | 0.1295  |  |  |
| Median  | 0.0174       | 0.0572  | 0.1379   | 0.1328  |  |  |
| n   | 61           | 56      | 52       | 49      |  |  |
| All other Activists   |              |         |          |         |  |  |
| Mean  | 0.0051       | -0.0125 | 0.0446   | 0.0589  |  |  |
| Median  | -0.0400      | -0.0217 | 0.0858   | 0.0699  |  |  |
| n   | 184          | 156     | 141      | 131     |  |  |
| t-test, difference between means  |              |         |          |         |  |  |
| t-stat (Top 5 – Other)  | 1.1760       | 1.1396  | 2.6040** | 2.0817* |  |  |
| Sig.  | 0.1212       | 0.1285  | 0.0052   | 0.0198  |  |  |

## TABLE 29 Top 5 Activists

\*Difference between the means is statistically significant at the 5% level

\*\* Difference between the means is statistically significant at the 1% level

Other interesting statistics about the Top 5 funds: 31.8% of firms were targeted with a stated objective of a change in the payout policy, 25.8% were targeted with the objective to sell the company or spin-off a division, and the Top 5 resorts to the threat of a proxy fight or actually launches a proxy fight as main tactics to pursue their objectives (45.5% of cases were targeted using both tactics).

#### *E)* The performance of the largest targeted firms (top 20% in market cap value)

These largest companies present a different pattern of statistics with median market cap of \$5.1 billion and \$3.6 billion respectively for the activist sample and the random sample (Table 30). At the median, they exhibit rather positive operating and stock market performance the year before being targeted'.

<sup>&</sup>lt;sup>7</sup> For this group of firms, we computed, as we did for the subset of firms targeted with the objective of  $\Delta$  Payout, the returns for 1 year up to 10 days before the intervention announce date to assess the stock market performance over the year before the hedge fund's arrival in the Q5 subset. We found a median return of 11.0% and a mean return of 18.2% (after winsorization at the 1% level), supporting our assertion that this subset of firms was exhibiting a rather positive stock market performance the year before being targeted.

| Median results of a set of descriptive variables at t-1<br>for the targeted firms and the random sample<br>in the 5 <sup>th</sup> quintile of market cap at t:Event year (larger firms) |          |         |  |  |  |
|---|----------|---------|--|--|--|
|   | Activist | Random  |  |  |  |
|   | sample   | sample  |  |  |  |
| Market Cap (M\$)  | 5,119.6  | 3,642.0 |  |  |  |
| Total Assets (M\$)  | 5,570.8  | 4.558.5 |  |  |  |
| Revenues (M\$)  | 4,180.4  | 2,442.7 |  |  |  |
| ROS   | 0.0615   | 0.0717  |  |  |  |
| ROA   | 0.0776   | 0.0761  |  |  |  |
| ROE   | 0.0563   | 0.0901  |  |  |  |
| Tobin's Q 1.6190 1.8500   |          |         |  |  |  |
| 1-vr Share price return <sup>†</sup> 0.1593 0.0596  |          |         |  |  |  |

## **TABLE 30**

<sup>†</sup>From Dec 31, year t-1 to Dec 31, year t

The objectives of hedge fund when targeting these larger companies are also different with a large majority advocating either the sale of the company (or spin-off of assets) or a change to its governance or board of directors (Table 31). Indeed, 9 firms in this group were eventually sold off.

#### TABLE 31 Activist Hedge Funds' Stated Objectives for the targeted firms in the 5<sup>th</sup> quintile of market cap at t:Event year (larger firms)

| Stated Objectives  | n  | % of firms in quintile |
|--|----|------------------------|
| Sell the company or asset restructuration (incl. spin-off) | 23 | 44.23%                 |
| Governance structure or board change                       | 10 | 19.23%                 |
| Change in payout policy                                    | 4  | 7.69%                  |
| Cost reduction   | 1  | 1.92%                  |
| Omnibus  | 4  | 7.69%                  |
| Other  | 4  | 7.69%                  |
| Undisclosed or vaguely described                           | 6  | 11.54%                 |
| Total  | 52 | 100.00%                |

However, the share price performance for this sub-group of large companies, shown in Table 32, indicate a strong performance but not one that is statistically better than the performance of a random sample of companies.

| of market cap at t:Event year (larger firms)                       |              |         |        |        |  |  |
|--|--------------|---------|--------|--------|--|--|
| Compounded Annual Stock Price Return (CASPR) (Listed Firms Method) |              |         |        |        |  |  |
| Dec. 31 Dec. 31 Dec. 31 D  |              |         |        |        |  |  |
| From Dec. 31, year t-1 to  | t:Event year | t+1     | t+2    | t+3    |  |  |
| Target firms in 5 <sup>th</sup> quintile of market cap             |              |         |        |        |  |  |
| Mean   | 0.0871       | 0.0241  | 0.1033 | 0.1238 |  |  |
| Median   | 0.1593       | 0.0757  | 0.1028 | 0.1358 |  |  |
| n  | 49           | 43      | 42     | 41     |  |  |
| Random firms in 5 <sup>th</sup> quintile of market cap             |              |         |        |        |  |  |
| Mean   | 0.1276       | 0.0474  | 0.0809 | 0.0940 |  |  |
| Median   | 0.0596       | 0.0583  | 0.0746 | 0.0852 |  |  |
| n  | 50           | 50      | 48     | 48     |  |  |
| t-tests, difference between means                                  |              |         |        |        |  |  |
| t-stat (Activist – Random)   | -0.6198      | -0.5379 | 0.6833 | 0.8965 |  |  |
| Sig.   | 0.2684       | 0.2962  | 0.2485 | 0.1867 |  |  |

#### TABLE 32 Targeted firms in the 5<sup>th</sup> quintile of market cap at t:Event year (larger firms) Compounded Annual Stock Price Return (*CASPR*) (Listed Firms Metho

#### F) Target firms where activist hedge fund obtained at least one board seat

Even if not formally requested by hedge funds at the time of the public announcement of their equity participation, in **79** cases, the hedge funds got to nominate at least one member of the board of a targeted company.

Table 33 presents the operating performance and stock market performance of these companies. The results indicate a compounded annual return of 5-6% after two years, a mean ROA that remains negative, a Tobin's Q which shows some improvement. In all cases, these results are not better, and in a few cases, worse than those of a random sample.

| Obtained at least one board seat |                    |                 |              |         |         |  |
|----------------------------------|--------------------|-----------------|--------------|---------|---------|--|
| Operating a                      | nd Stock Market Pe | rformance (Li   | sted Firms N | lethod) |         |  |
|                                  |                    | t:Event<br>year | t+1          | t+2     | t+3     |  |
| CASPR, from Dec 31, year t-1 to  | ) Dec 31, year t+n |                 |              |         |         |  |
| (Listed firms method)            | Mean               | -0.0022**       | -0.0353*     | 0.0553  | 0.0689  |  |
|                                  | Median             | -0.0468         | -0.0144      | 0.0666  | 0.0655  |  |
|                                  | ROA                |                 |              |         |         |  |
|                                  | Mean               | -0.0375         | -0.0322*     | -0.0402 | -0.0870 |  |
|                                  | Median             | 0.0062          | 0.0186       | 0.0187  | 0.0266  |  |
|                                  | Tobin's Q          |                 |              |         |         |  |
|                                  | Mean               | 1.5035*         | 1.4855       | 2.1055  | 2.2170  |  |
|                                  | Median             | 1.2189          | 1.1544       | 1.4722  | 1.8871  |  |
|                                  | n                  | 79              | 69           | 63      | 52      |  |

## TABLE 33 Target firms where activist hedge fund

\*Difference between the means (activist sample with board seat – random) is statistically significant at the 5% level \*\* Difference between the means (activist sample with board seat – random) is statistically significant at the 1% level Note: in all instances where the differences are statistically significant, the mean of the activist sample is inferior to the mean of the random sample

#### Conclusions on stock market performance

Overall, the stock price performance of companies targeted by hedge funds tends to show some improvement over a couple of years after the arrival of these funds. The standard set of actions they urge on companies are well received by the stock market. But, as shown in Table 20, the increase (or decrease) in market value of targeted firms maps closely what happened to a random sample of firms over the same period.

Furthermore, the stock market performance of targeted companies varies widely according to the objective pursued or the nature of the funds. Getting companies merged or sold off is a clear driver of hedge fund performance. The targeted companies where hedge funds were calling for increased pay-out (usually through shares buy-back) show strong stock market performance overall, although these targeted companies were already doing well in the year the hedge funds came on board.

Also, the most active hedge funds seem to do a better job of extracting returns from targeted companies.

Larger targeted companies show good stock market performance but not really better than that of a random sample of large companies.

Getting at least one of their nominees on the board of a targeted company does not seem to translate into a better stock market performance for the company.

Given that the average holding period of these activists is some 1.5 year, it is questionable to attribute to hedge funds any improvement in performances three years after their intervention. It appears that companies are fairly resilient and those that are not sold off seem to show evidence that management tries to pick up where they had left off with the arrival of the hedge fund.

#### Concluding observations and discussion

We had formulated a number of research objectives for this study:

- Describe the contemporary tactics and objectives of activist hedge funds as well as the actions taken by targeted companies as a result of their intervention;
- Explore the consequences of activism over time when compared to a random sample of firms with similar characteristics at the time of intervention (effects on operational performance and share price returns);
- Analyze the singularities associated with salient sub-groups of targeted firms.

We believe these objectives were achieved. What conclusions may be drawn from this study?

First, the small size of the companies targeted by activist hedge funds is striking. Of course, there are a number of large ones that get the lion share of media attention but the fact that 15% of the companies targeted in 2010 and 2011 by "activists" were traded over the counter (so called "pink sheets") rings a number of alarm bells. From a research standpoint, it calls for great care in reaching conclusions as to improvement in operating and stock market performance. It certainly invites to caution in assessing the reported performance of hedge funds that make it their business to target these very small companies.

Our study, similar to several others, show that the best way, bar none, for these activists to make money for their funds is to get the company sold off or substantial assets spun-off.

We have shown pretty clear and compelling evidence that the much vaunted "improvements" in operating performance (ROA, ROE, Tobin's Q) result in good part from some basic financial manoeuvres (cutting R&D, selling assets, cutting capital expenditures, buying back shares, etc.).

Because of the stock market's focus with these sorts of ratios (and earnings per share), the market value of the targeted companies tend to increase moderately. However, in several cases, the stock market performance of targeted companies is no better than that of a matched random sample.

However, there is no overwhelming evidence of deterioration either. That is not a result that owes to the forbearance of activists. What happens to the company after their departure is of little concern to hedge funds. For a time, boards and management manage their company to please the activist investor: new or increased share repurchase programs, workforce reduction, cuts in R&D and SG&A expenses, sell all assets generating only "low" profitability, stop all expansion plans, etc. All these measures have a catalyst effect on the financial ratios followed by the markets. If the CEO or CFO is opposed to this course of action, chances are this person will be looking for a new job quite rapidly after the activist's arrival.

Typically, after the departure of the hedge fund, the management and the board of the company will assess the situation and resume managing the company for the longer term. That is, if the threat of another attack is not likely or imminent.

To really understand what is happening when a hedge fund targets a company and after the fund departs (assuming the company has not been sold in the process), one should delve into the specifics of each situation: the interaction, the chess match, between the company's management and the hedge fund is dynamic, made of moves and counter-moves as illustrated above by the short description of the **DSP Group**'s experience.

The varying objectives and tactics of hedge funds and the distinctive profiles of targeted firms result in several different clusters of activism, which, when merged, make it nary impossible to understand the consequences and performance of this form of activism. Studies mixing a large number of instances of activism across a long period of time are bound to produce misleading results.

Whatever their ultimate goal, hedge funds may begin by seeking board representation and will not hesitate to launch a proxy fight to achieve their immediate goal; in the process, they will disparage current management and board members; once represented on the board, they will pursue their real objective and call for change of the CEO or the CFO (or both) if not compliant enough.

In general, the stock's performance of targeted companies over a three-year span barely matches the performance of a random sample of companies. But the *activist hedge funds*, by timing their entry and exit of a stock, by using derivatives and leverage on occasion to enhance their yield, by benefiting from the "control" premium on getting companies sold off, may well achieve highly positive results.

The real beneficiaries of the actions of these hedge funds are the *fund managers themselves and their investors, largely institutional investors and pension funds,* which of course supply tons of money to these activists.

For targeted companies, the most immediate consequence is the likelihood of being sold off. *We* shall never know whether these sold-off companies could have developed into industrial champions on their own. For other targeted companies, this hedge fund episode often results in change of senior management and board members, cuts in people, stagnating capital expenditures and R&D; while not lethal over the short period of time that these hedge funds hang around, companies come out of the experience as shrunken firms that may have lost a couple of years to their competitors.

#### Discussion

The most fundamental issue raised by the phenomenon of hedge fund activism is the crucial assumption that underpins their activities (or at the very least underpins the advocates' arguments in their favour), that is:

Outsiders analyzing financial data from afar can determine that a company is not managed so as to maximize value for its shareholders and that some specific actions they have identified should be taken that would benefit shareholders *and would be in the long-term interest of the company.* 

Indeed, the argument is made that the cuts in R&D and capital expenditures are applied only to those projects that have no economic justification, that the allocation of cash resources to buy back shares is a better use than some misguided capital investment; of course selling the company (or splitting it up) provides the best outcome for the company and contributes to the overall efficiency of the economic system.

An essential corollary of this "argument" has to be that, in many instances which activists are particularly adept at spotting, management and boards of directors are incompetent, complacent, lack foresight and are unable to act in a manner that serves the best interest of their company. Given the very small size of most companies targeted by hedge funds, that may occur more readily.

But to accept that occurrence as a general rule would be misguided.

Yet, some researchers claim that "Activist investors don't slash budgets indiscriminately. They treat R&D as a form of investment...they examined whether outlays for R&D were directed toward the firm's core competency. If not, those funds were likely to be cut." (Jiang, Fortune, August 27<sup>th</sup> 2015)

It would seem a bit unusual that managers, despite their large stock-related compensation, would, with the blessing of their board of directors, waste or misspend R&D funds; until, that is, a wise, better informed activist hedge fund manager comes around to point out the errors of their way.

Either that concept of the business world is accurate, then the whole system of governance of publicly listed businesses must be scrapped and shareholders should call the shot directly and give their marching orders to management; or that view is wrong and management and boards of directors know best what is in the long-term interest of the company. That is a clear choice and one that underpins much of the divergent views on the role and impact of activist hedge funds.

While activist hedge funds (and a number of academics, sheltered by reams of data) have a stake in the first point of view, business people and those whose jobs bring them in close contact with the real world of business tend to partake of the second point of view.

This research does not provide any evidence of the superior strategic sagacity of hedge fund managers but does point to their keen understanding of what moves stock prices in the short term. Indeed, in none of the 259 cases studied here did hedge funds make proposals of a strategic nature to enhance the long-term performance of the firm.

That should concern society, governments, pension funds, mutual funds and other institutional investors with pretension of a long-term investment horizon.

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