# **Executive Compensation as an Agency Problem**

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Executive compensation has long attracted a great deal of attention from financial economists. Indeed, the increase in academic papers on the subject of CEO compensation during the 1990s seems to have outpaced even the remarkable increase in CEO pay itself during this period (Murphy, 1999). Much research has focused on how executive compensation schemes can help alleviate the agency problem in publicly traded companies. To understand adequately the landscape of executive compensation, however, one must recognize that the design of compensation arrangements is also partly a product of this same agency problem.

# Alternative Approaches to Executive Compensation

Our focus in this paper is on publicly traded companies without a controlling shareholder. When ownership and management are separated in this way, managers might have substantial power. This recognition goes back, of course, to Berle and Means (1932, p. 139) who observed that top corporate executives, "while in office, have almost complete discretion in management." Since Jensen and Meckling (1976), the problem of managerial power and discretion has been analyzed in modern finance as an "agency problem."

Managers may use their discretion to benefit themselves personally in a variety

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of ways (Shleifer and Vishny, 1997). For example, managers may engage in empire building (Jensen, 1974; Williamson, 1964). They may fail to distribute excess cash when the firm does not have profitable investment opportunities (Jensen, 1986). Managers also may entrench themselves in their positions, making it difficult to oust them when they perform poorly (Shleifer and Vishny, 1989). Any discussion of executive compensation must proceed against the background of the fundamental agency problem afflicting management decision-making. There are two different views, however, on how the agency problem and executive compensation are linked.

Among financial economists, the dominant approach to the study of executive compensation views managers' pay arrangements as a (partial) remedy to the agency problem. Under this approach, which we label the "optimal contracting approach," boards are assumed to design compensation schemes to provide managers with efficient incentives to maximize shareholder value. Financial economists have done substantial work within this optimal contracting model in an effort to understand executive compensation practices; recent surveys of this work include Murphy (1999) and Core, Guay and Larcker (2001). To some researchers working within the optimal contracting model, the main flaw with existing practices seems to be that, due to political limitations on how generously executives can be treated, compensation schemes are not sufficiently high-powered (Jensen and Murphy, 1990).

Another approach to studying executive compensation focuses on a different link between the agency problem and executive compensation. Under this approach, which we label the "managerial power approach," executive compensation is viewed not only as a potential instrument for addressing the agency problem but also as part of the agency problem itself. As a number of researchers have recognized, some features of pay arrangements seem to reflect managerial rent-seeking rather than the provision of efficient incentives (for example, Blanchard, Lopezde-Silanes and Shleifer, 1994; Yermack, 1997; and Bertrand and Mullainathan, 2001). We seek to develop a full account of how managerial influence shapes the executive compensation landscape in a forthcoming book (Bebchuk and Fried, 2004) that builds substantially on a long article written jointly with David Walker (Bebchuk, Fried and Walker, 2002).

Drawing on this work, we argue below that managerial power and rent extraction are likely to have an important influence on the design of compensation arrangements. Indeed, the managerial power approach can shed light on many significant features of the executive compensation landscape that have long been seen as puzzling by researchers working within the optimal contracting model. We also explain that managers' influence over their own pay might impose substantial shareholders—beyond the excess pay executives by diluting and distorting managers' incentives and thereby hurting corporate performance.

Although the managerial power approach is conceptually quite different from the optimal contracting approach, we do not propose the former as a complete

replacement for the latter. Compensation arrangements are likely to be shaped both by market forces that push toward value-maximizing outcomes, and by managerial influence, which leads to departures from these outcomes in directions favorable to managers. The managerial power approach simply claims that these departures are substantial and that optimal contracting alone cannot adequately explain compensation practices.

# The Limitations of Optimal Contracting

The optimal contracting view recognizes that managers suffer from an agency problem and do not automatically seek to maximize shareholder value. Thus, providing managers with adequate incentives is important. Under the optimal contracting view, the board, working in shareholders' interest, attempts to provide cost-effectively such incentives to managers through their compensation packages.

Optimal compensation contracts could result either from effective arm's length bargaining between the board and the executives or from market constraints that induce these parties to adopt such contracts even in the absence of arm's length bargaining. However, neither of these forces can be expected to prevent significant departures from arm's length outcomes.<sup>1</sup>

Just as there is no reason to presume that managers automatically seek to maximize shareholder value, there is no reason to expect *a priori* that directors will either. Indeed, directors' behavior is also subject to an agency problem, which in turn undermines their ability to address effectively the agency problems in the relationship between managers and shareholders.

Directors generally wish to be re-appointed to the board. Average director compensation in the 200 largest U.S. corporations was \$152,626 in 2001 (Pearl Meyers and Partners, 2002). In the notorious Enron case, the directors were each paid \$380,000 annually (Abelson, 2001). Besides an attractive salary, a directorship is also likely to provide prestige and valuable business and social connections. CEOs play an important role in renominating directors to the board. Thus, directors usually have an incentive to favor the CEO.

To be sure, in a world in which shareholders selected individual directors, directors might have an incentive to develop reputations as shareholder-serving. However, board elections are by slate, dissidents putting forward their own director slate confront substantial impediments, and such challenges are therefore exceedingly rare (Bebchuk and Kahan, 1990). Typically, the director slate proposed by management is the only one offered.

The key to a board position is thus being placed on the company's slate.

<sup>&</sup>lt;sup>1</sup> Shareholders could try to challenge undesirable pay arrangements in court. However, corporate law rules effectively prevent courts from reviewing compensation decisions (Bebchuk, Fried and Walker, 2002, pp. 779–781).

Because the CEO's influence over the board gives her significant influence over the nomination process, directors have an incentive to "go along" with the CEO's pay arrangement, a matter dear to the CEO's heart—at least as long as the compensation package remains within the range of what can plausibly be defended and justified. In addition, because being on the company's slate is the key to being appointed, developing a reputation for haggling with the CEO over compensation would hurt rather than help a director's chances of being invited to join other companies' boards. Yet another reason to favor the CEO is that the CEO can affect directors' compensation and perks.

Directors typically have only nominal equity interests in the firm (Baker, Jensen and Murphy, 1988; Core, Holthausen and Larcker, 1999). Thus, even a director who did not place much value on a board seat would still have little personal motivation to fight the CEO and her friends on the board on compensation matters. Moreover, directors usually lack easy access to independent information and advice on compensation practices necessary to effectively challenge the CEO's pay.

Finally, market forces are not sufficiently strong and fine-tuned to assure optimal contracting outcomes. Markets—including the market for corporate control, the market for capital and the labor market for executives—impose some constraints on what directors will agree to and what managers will ask them to approve. An analysis of these markets, however, indicates that the constraints they impose are far from tight and permit substantial deviations from optimal contracting (Bebchuk, Fried and Walker, 2002).

Consider, for example, the market for corporate control—the threat of a takeover. Firms frequently have substantial defenses against takeovers. For example, a majority of companies have a staggered board, which prevents a hostile acquirer from gaining control before two annual elections pass, and often enables incumbent managers to block hostile bids that are attractive to shareholders. To overcome incumbent opposition, a hostile bidder must be prepared to pay a substantial premium; during the second half of the 1990s, the average premium in hostile acquisitions was 40 percent (Bebchuk, Coates and Subramanian, 2002). The disciplinary force of the market for corporate control is further weakened by the prevalence of "golden parachute" provisions, as well as acquisition-related benefits that target managers often receive when an acquisition takes place. The market for corporate control thus leaves managers with considerable slack and ability to extract private benefits.

To be sure, the market for control might impose some costs on managers who are especially aggressive in extracting rents; we later note evidence that CEOs of firms with stronger takeover protection get pay packages that are both larger and less sensitive to performance. The important point is that the market for corporate control fails to impose tight constraints on executive compensation.

Some responses to our earlier work assumed that our analysis of the absence of arm's length bargaining did not apply to cases in which boards negotiate pay with a CEO candidate from outside the firm (for example, Murphy, 2002). However,

while such negotiations might be closer to the arm's length model than negotiations with an incumbent CEO, they still fall quite short of this benchmark. Among other things, directors negotiating with an outside CEO candidate know that after the candidate becomes CEO, she will have influence over their renomination to the board and over their compensation and perks. The directors will also wish to have good personal and working relationships with the person who is expected to become the firm's leader and a fellow board member. And while agreeing to a pay package that favors the outside CEO hire imposes little financial cost on the directors, any breakdown in the hiring negotiations, which might embarrass the directors and in any event force them to reopen the CEO selection process, would be personally costly to them. Finally, directors' limited time forces them to rely on information shaped and presented by the company's human resources staff and compensation consultants, all of whom have incentives to please the incoming CEO.

# The Managerial Power Approach

The very reasons for questioning the ability of optimal contracting to explain compensation practices adequately also suggest that executives have substantial influence over their own pay. In addition, these reasons suggest that the greater is managers' power, the greater is their ability to extract rents. There are limits to what directors will accept and what markets will permit, but these constraints do not prevent managers from obtaining arrangements that are substantially more favorable than those they could obtain by bargaining at arm's length.

One important building block of the managerial power approach is "outrage" costs and constraints. The tightness of the constraints managers and directors confront depends, in part, on how much "outrage" a proposed arrangement is expected to generate among relevant outsiders. Outrage might cause embarrassment or reputational harm to directors and managers, and it might reduce share-holders' willingness to support incumbents in proxy contests or takeover bids. The more outrage a compensation arrangement is expected to generate, the more reluctant directors will be to approve the arrangement and the more hesitant managers will be to propose it in the first instance. Thus, whether a compensation arrangement that is favorable to executives but suboptimal for shareholders is adopted will depend on how it is perceived by outsiders.

There is evidence that the design of compensation arrangements is indeed influenced by how outsiders perceive them. Johnson, Porter and Shackell (1997) find that CEOs of firms receiving negative media coverage of their compensation arrangements during 1992–1994 subsequently received relatively small pay increases and had the pay-performance sensitivity of their compensation arrangements increased. Thomas and Martin (1999) find that, during the 1990s, CEOs of firms that were the target of shareholder resolutions criticizing executive pay had

their annual compensation reduced over the following two years by an average of \$2.7 million.

The potential significance of outsiders' perception of a CEO's compensation and of outrage costs explains the importance of yet another building block of the managerial power approach—"camouflage." To avoid or minimize the outrage that results from outsiders' recognition of rent extraction, managers have a substantial incentive to obscure and try to legitimize—or, more generally, to camouflage—their extraction of rents. The strong desire to camouflage might lead to the adoption of inefficient compensation structures that hurt managerial incentives and firm performance. This concept of camouflage turns out to be quite useful in explaining many otherwise puzzling features of the executive compensation landscape.

The importance of how compensation arrangements are perceived means that, in the executive compensation area, the transparency of disclosure matters. Financial economists often focus on the role of disclosure in getting information incorporated into market pricing. It is widely believed that information can become reflected in stock prices as long as it is known and fully understood by a limited number of market professionals. In the executive compensation context, however, the ability of plan designers to choose arrangements that favor managers depends on how these arrangements are perceived by a much wider group of outsiders. As a result, the transparency and salience of disclosure can have a significant effect on CEO compensation.

Murphy (2002) and Hall and Murphy (this issue) argue that our approach cannot explain increases in managerial pay during the 1990s. In their view, CEO power declined during this period. Given the strengthening of takeover defenses during the 1990s, however, it is unclear whether CEO power diminished during this period. In any event, executive pay increases during the 1990s resulted not from changes in managerial power but rather from other factors, none of which is inconsistent with the managerial power approach.

First, seeking to make pay more sensitive to performance, regulators and shareholders encouraged the use of equity-based compensation. Taking advantage of this enthusiasm, executives used their influence to obtain substantial option pay without giving up corresponding amounts of their cash compensation. Furthermore, the options they received did not link pay tightly to the managers' own performance, but rather enabled managers to reap windfalls from that part of the stock price increase that was due solely to market and sector trends beyond their control. As a result, managers were able to capture much larger gains than more cost-effective and efficient option plans would have provided. Second, because executive compensation has historically been correlated with market capitalization, the rising stock markets of the 1990s, which carried along with them even many poorly performing companies, provided a convenient justification at most firms for substantial pay increases. Third, market booms weaken outrage constraints; exuberant shareholders are less likely to scrutinize and resent generous pay arrangements, in the same way that the recent market declines have made shareholders more prone to do so.

# Power and Camouflage at Work

We illustrate below the potential value of the managerial power approach by discussing four patterns and practices that can be at least partly explained by power and camouflage: the relationship between power and pay; the use of compensation consultants; stealth compensation; and gratuitous goodbye payments to departing executives.

# **Power-Pay Relationships**

The managerial power approach predicts that pay will be higher and/or less sensitive to performance in firms in which managers have relatively more power. Other things being equal, managers would tend to have more power when i) the board is relatively weak or ineffectual; ii) there is no large outside shareholder; iii) there are fewer institutional shareholders; or iv) managers are protected by antitakeover arrangements. There is evidence indicating that each of these factors affects pay arrangements in the way predicted by the managerial power approach.

Executive compensation is higher when the board is relatively weak or ineffectual vis-à-vis the CEO. Core, Holthausen and Larcker (1999) find that CEO compensation is higher under the following conditions: when the board is large, which makes it more difficult for directors to organize in opposition to the CEO; when more of the outside directors have been appointed by the CEO, which could cause them to feel a sense of gratitude or obligation to the CEO; and when outside directors serve on three or more boards, and thus are more likely to be distracted. Also, CEO pay is 20–40 percent higher if the CEO is the chairman of the board (Cyert, Kang and Kumar, 2002; Core, Holthausen and Larcker, 1999). Finally, CEO pay is negatively related to the share ownership of the board's compensation committee; doubling compensation committee ownership reduces nonsalary compensation by 4–5 percent (Cyert, Kang and Kumar, 2002).

The presence of a large outside shareholder is likely to result in closer monitoring (Shleifer and Vishny, 1986), and it can be expected to reduce top managers' influence over their compensation. Consistent with this observation, Cyert, Kang and Kumar (2002) find a negative correlation between the equity ownership of the largest shareholder and the amount of CEO compensation: doubling the percentage ownership of the outside shareholder reduces nonsalary compensation by 12-14 percent. Bertrand and Mullainathan (2000) find that CEOs in firms that lack a 5 percent (or larger) external shareholder tend to receive more "luck-based" pay—pay associated with profit increases that are entirely generated by external factors (such as changes in oil prices and exchange rates) rather than by managers' efforts. They also find that in firms lacking large external shareholders, the cash compensation of CEOs is reduced less when their option-based compensation is increased. Relatedly, in an examination of Standard & Poor's 500 firms during the period 1992-1997, Benz, Kucher and Stutzer (2001) find that a higher concentration of shareholders results in a significantly smaller amount of options grants to top executives.

A larger concentration of institutional shareholders might result in greater monitoring and scrutiny of the CEO and the board. Examining CEO pay in almost 2000 firms during the period 1991-1997, Hartzell and Starks (2002) find that the more concentrated is institutional ownership, the lower is executive compensation. They also find that a larger institutional presence results in more performance-sensitive compensation. Examining CEO compensation in the 200 largest companies during 1990–1994, David, Kochar and Levitas (1998) find that the effect of institutional shareholders on CEO pay depends on the types of relationships they have with the firm. They divide institutional shareholders into 1) those that have no other business relationship with the firm and are thus concerned only with the firm's share value ("pressure-resistant" institutions); and 2) those that have other business relationships with the firm (like managing a pension fund) and are thus vulnerable to management pressure ("pressure-sensitive" institutions). As the managerial power approach predicts, CEO pay is negatively correlated with the presence of pressure-resistant institutional investors and positively correlated with the presence of pressure-sensitive ones.

The adoption of antitakeover provisions makes CEOs less vulnerable to a hostile takeover. Borokhovich, Brunarski and Parrino (1997), examining 129 firms that adopted antitakeover provisions (such as a supermajority rule) during the period 1979–1987, find that CEOs of firms adopting such provisions enjoy above-market compensation before adoption of the antitakeover provisions and that adoption of these provisions increases their excess compensation significantly. This pattern is not readily explainable by optimal contracting; indeed, if managers' jobs are more secure, shareholders should be able to pay managers a lower risk premium (Agrawal and Knoeber, 1998). In another study, Cheng, Nagar and Rajan (2001) find that CEOs of Forbes 500 firms that became protected by state antitakeover legislation enacted during the period 1984-1991 reduced their holdings of shares by an average of 15 percent, apparently because the shares were not as necessary for maintaining control. Optimal contracting might predict that a CEO protected by antitakeover legislation would be required to buy more shares to restore the CEO's incentive to increase shareholder value.

#### **Compensation Consultants**

U.S. public companies typically employ outside consultants to provide input into the executive compensation process (Bizjack, Lemmon and Naveen, 2000). The use of consultants can be explained within the optimal contracting framework on grounds that they supply useful information and contribute expertise on the design of compensation packages. But although compensation consultants might play a useful role, they also can help in camouflaging rents. The incentives of compensation consultants—and the evidence regarding their use—suggest that these consultants are often used to justify executive pay rather than to optimize it.

Compensation consultants have strong incentives to use their discretion to benefit the CEO. Even if the CEO is not formally involved in the selection of the compensation consultant, the consultant is usually hired by the firm's human

resources department, which is subordinate to the CEO. Providing advice that hurts the CEO's pocketbook is hardly a way to enhance the consultant's chances of being hired in the future by this firm or, indeed, by any other firms. Moreover, executive pay specialists often work for consulting firms that have other, larger assignments with the hiring company, which further distorts their incentives (Crystal, 1991).

Pay consultants can favor the CEO by providing the compensation data that are most useful for justifying a high level of pay. For example, when firms do well, consultants argue that pay should reflect performance and should be higher than the average in the industry—and certainly higher than that of CEOs who are doing poorly. In contrast, when firms do poorly, the consultants focus not on performance data but rather on peer group pay to argue that CEO compensation should be higher to reflect prevailing industry levels (Gillan, 2001).

After the compensation consultant has collected and presented the "relevant" comparative data, the board generally sets pay equal to or higher than the median CEO pay in the comparison group. Reviewing the reports of compensation committees in 100 large companies, Bizjack, Lemmon and Naveen (2000) report that 96 used peer groups in determining management compensation and that a large majority of firms that use peer groups set compensation at or above the fiftieth percentile of the peer group. The combination of helpful compensation consultants and sympathetic boards is partly responsible for the widely recognized "ratcheting up" of executive salaries (Murphy, 1999, p. 2525).

After the board approves the compensation package, firms use compensation consultants and their reports to justify executive compensation to shareholders. Examining Standard & Poor's 500 companies during the period 1987–1992, Wade, Porac and Pollack (1997) find that companies that pay their CEOs larger base salaries, and firms with more concentrated and active outside ownership, are more likely to cite the use of surveys and consultants in justifying executive pay in their proxy reports to shareholders. This study also finds that, when accounting returns are high, firms emphasize the accounting returns and downplay market returns.

#### **Stealth Compensation**

As we document in Bebchuk and Fried (2003), firms use pay practices that make less transparent the total amount of executive compensation and the extent to which compensation is decoupled from managers' own performance. Among the arrangements used by firms that camouflage the amount and the performance-insensitivity of compensation are pension plans, deferred compensation, post-retirement perks, and consulting contracts.

Most of the pension and deferred compensation benefits given to executives do not enjoy the large tax subsidy that applies to the standard retirement arrangements provided to other employees. In the case of executives, such arrangements largely shift tax liability from the executive to the firm in ways that sometimes even increase the joint tax liability of the two parties. The efficiency grounds for providing compensation through in-kind retirement perks and guaranteed postretirement consulting fees are also far from clear. All of these arrangements, however, make pay less salient.

Among other things, under existing disclosure rules, firms do not have to place a dollar value on—and include in the firm's publicly filed compensation tables compensation provided to executives after they retire. Although the existence of executives' retirement arrangements must be noted in certain places in the firm's public filings, this disclosure is less salient, because outsiders focus on the dollar amounts reported in the compensation tables. Indeed, the compensation table numbers are used by the ExecuComp database, which is the basis for much of the empirical work on executive compensation.

Another practice with camouflage benefits was the use of executive loans. While the Sarbanes-Oxley Act of 2002 now prohibits such loans, prior to the Act's adoption more than 75 percent of the 1,500 largest U.S. firms lent money to executives (King, 2002). It is not readily apparent that having firms (rather than banks) lend to executives—or that providing compensation in the form of favorable interest rates—is efficient. But loans are useful for reducing the salience of managers' compensation.

To begin with, the implicit compensation provided by below-market-rate loans often does not appear in the compensation tables in the firm's annual filing. The SEC ruled that firms must disclose in the category of "other annual compensation" the difference between the interest actually paid on executive loans and the "market rate." However, the SEC did not define "market rate," and firms have interpreted the term in a manner that enabled them to exclude the value of large interest rate subsidies from the compensation tables.

For example, WorldCom did not report in its compensation tables any income to CEO Bernard Ebbers from the over \$400 million of loans he received from WorldCom at an interest rate of 2.15 percent; it later justified the omission on the grounds that 2.15 percent was the "market rate" at which WorldCom was borrowing under one of its credit facilities. However, 2.15 percent was far below the more than 5 percent rate that Ebbers would have paid at that time in the market to borrow funds. To be sure, the existence and terms of the loans (although not an estimate of the conferred benefits) had to be noted elsewhere in the firm's public filings as a related party transaction. However, this disclosure is much less salient because outsiders interested in executives' compensation commonly focus on the compensation tables. Indeed, in Ebbers's case, despite the large financial benefit provided by the extremely low interest rate on his loans, the loans received no media attention and no outside scrutiny until WorldCom became involved in an accounting scandal.

Another manner in which loans provided camouflage was through the practice of loan forgiveness. A firm that gave an executive a loan to buy a large amount of stock would often not demand full repayment of the loan if the stock value fell below the amount due on the loan. As a result, the arrangement was similar to (but, it can be shown, often less tax efficient than) granting the executive an option to buy shares at a price equal to the amount owed on the loan. However, option grants

must be reported the year they are made in the firm's publicly filed compensation tables. In contrast, when granting a loan that likely will be forgiven if the stock price drops, the firm did not need to include the option value of the arrangement in the compensation tables in the year the loan was made. Indeed, if the stock price fell, the loan would often be forgiven at the time that the executive left the company, when any resulting outrage is likely to have little impact on the executive personally. For example, George Shaheen, the Webvan CEO who resigned shortly before Webvan went bankrupt, had a \$6.7 million loan forgiven in exchange for \$150,000 of Webvan stock (Lublin, 2002).

#### **Gratuitous Goodbye Payments**

In many cases, boards give departing CEOs payments and benefits that are gratuitous—not required under the terms of the CEO's compensation contract. Such gratuitous goodbye payments are common even when CEOs perform so poorly that the board feels compelled to replace them.

Compensation contracts usually provide executives with generous severance arrangements even when they depart following very dismal performance. Such "soft landing" provisions provide executives with insurance against being fired due to poor performance. It is far from clear that these arrangements reflect optimal contracting; after all, such provisions reduce the difference in managerial payoffs between good and poor performance that firms spend so much money trying to create. Our focus here, however, is on payments that go beyond the severance arrangements that are contractually specified.

For example, when Mattel CEO Jill Barad resigned under fire, the board forgave a \$4.2 million loan, gave her an additional \$3.3 million in cash to cover the taxes for forgiveness of another loan and allowed her unvested options to vest automatically. These gratuitous benefits were in addition to the considerable benefits that she received under her employment agreement, which included a termination payment of \$26.4 million and a stream of retirement benefits exceeding \$700,000 per year.

It is not easy to reconcile such gratuitous payments with the arm's length, optimal contracting model. The board has the authority to fire the CEO and pay the CEO her contractual severance benefits. Thus, there is no need to "bribe" a poorly performing CEO to step down. In addition, the signal sent by the goodbye payment will, if anything, only weaken the incentive of the next CEO to perform.

The making of such gratuitous payments, however, is quite consistent with the existence of managerial influence over the board. Because of their relationship with the CEO, some directors might be unwilling to replace the CEO unless she is treated very generously. Other directors might be willing to replace the CEO in any event, but prefer to accompany the move with a goodbye payment to reduce the discomfort they feel firing the CEO or to make the difficult separation process more pleasant and less contentious. In all of these cases, directors' willingness to make gratuitous payments to the (poorly performing) CEO results from the CEO's relationship with the directors.

It is important to note that, taking managerial power as given, providing gratuitous payments to fired CEOs might be beneficial to shareholders in some instances. If many directors are loyal to the CEO, such payments might be necessary to assemble a board majority in favor of replacing him. In such a case, the practice would help shareholders when the CEO's departure is more beneficial to shareholders than the cost to them of the goodbye payment. For our purposes, however, what is important is that these gratuitous payments, whether they are beneficial to shareholders or not, reflect the existence and significance of managerial influence.

# **Suboptimal Pay Structures**

# Pay Without Performance

Optimal contracting arrangements might call for very large amounts of compensation for executives, if such compensation is needed to provide managers with powerful incentives to enhance shareholder value (Jensen and Murphy, 1990). The problem with current arrangements, however, is that the generous compensation provided executives is linked only weakly to managerial performance. This payperformance disconnect is puzzling from an optimal contracting view.

The substantial part of compensation that is not equity based has long been criticized as weakly linked to managerial performance. During the 1990s, there was no significant correlation between a CEO's salary and bonus and her firm's industry-adjusted performance (Murphy, 1999). In addition, there is evidence that cash compensation increases when firm profits rise for reasons that clearly have nothing to do with managers' efforts (Blanchard, Lopez-de-Silanes and Shleifer, 1994; Bertrand and Mullainathan, 2001). Furthermore, managers receive substantial non-equity compensation through arrangements that have received little attention from financial economists—such as pensions, deferred pay and loans—and this compensation is also relatively insensitive to managers' own performance.

In light of the historically weak link between managers' performance and their non-equity compensation, shareholders and regulators have increasingly looked to equity-based compensation to provide the desired link between pay and performance. In the early 1990s, institutional investors and federal regulators sought to encourage the use of such compensation, and the last decade has witnessed a dramatic growth in the use of stock options. Unfortunately, however, managers have been able to use their influence to obtain option plans that appear to deviate substantially from optimal contracting in ways that favor managers.

We wish to emphasize our strong support for the concept of equity-based compensation which, if well designed, could provide managers with very desirable incentives. The devil, however, is in the details. Below, we discuss several important features of existing option compensation plans that are difficult to justify from an optimal contracting perspective, but can readily be explained by the managerial

power approach: the failure of option plans to filter out windfalls, the almost uniform use of at-the-money options and the broad freedom given to managers to unload options and shares.

It might be asked why risk-averse managers would not use their influence to get higher cash salaries rather than options. Holding the expected value of additional compensation constant, managers would indeed prefer to take the cash. But managers seeking to increase their pay during the 1990s did not have a choice between additional compensation in the form of cash and additional compensation in the form of options with the same expected value. Rather, outsiders' enthusiasm about equity-based compensation enabled managers to obtain additional compensation in the form of options without offsetting reduction in cash compensation. Furthermore, the possible benefits from improved incentives provided defensible reasons for very large amounts of additional compensation. While Apple CEO Steve Jobs was recently able to obtain an option package worth over half a billion dollars, albeit with some outcry, cash compensation of this order of magnitude is (still) quite inconceivable. The fact that better designed options could have provided much more cheaply the same incentives has not been sufficiently salient to make conventional plans patently unjustifiable.

# Option Plans that Fail to Filter Out "Windfalls"

One widespread and persistent feature of stock option plans is that they fail to filter out stock price rises that are due to industry and general market trends and thus completely unrelated to managers' own performance. Under conventional option plans, when the market or sector rises substantially, even executives whose companies perform poorly relative to the market or sector average can make large profits. Paying managers substantial compensation for stock price increases that have nothing to do with their own performance is difficult to explain under optimal contracting. The substantial amount currently spent on rewarding managers for market or sector rises could either be used to enhance incentives (for example, by giving managers a large number of options linked more tightly to managers' own performance) or be saved with little weakening of incentives.

There are many different ways of designing what we call "reduced-windfall" option plans—plans that filter out all or some of the part of the stock price increase that is unrelated to managers' own performance. One approach discussed frequently by academics is linking the exercise price of options to a market-wide index or a sector index (for example, Rappaport, 1999). Another strategy is to condition the "vesting" of options on the firm meeting specified performance targets. These targets can be linked to the stock price, earnings per share or any other measure of firm performance.

When the exercise price of an indexed option is linked to market or sector averages, there is a substantial possibility that the manager will receive no payoff from the option plan. If this possibility were regarded as undesirable, reduced-windfall options could easily be designed to produce a high likelihood of payout. For example, the exercise price could be indexed not to changes in the

industry or market average, but rather to changes in a somewhat lower benchmark—say, the stock price of the firm that is at the bottom 20<sup>th</sup> percentile of the industry or market. Under such an option plan, executives would have, on average, an 80 percent probability of outperforming the benchmark and receiving a payout. But executives would not profit, as they could under conventional plans, when their performance places them at or below the 20<sup>th</sup> percentile.

Given the wide variety of reduced-windfall options available and their potential benefits, it would probably be optimal in many firms to filter out at least some of the increase in the stock price that has nothing to do with managers' own performance. Yet almost all U.S. firms use conventional stock options under which managers capture the full increase in stock price. In 2001, only about 5 percent of the 250 largest U.S. public firms used some form of reduced-windfall options (Levinsohn, 2001).

Financial economists have made substantial efforts to develop optimalcontracting explanations for why firms do not use reduced-windfall options. We survey the various explanations in our earlier work (Bebchuk, Fried and Walker, 2002, pp. 803-809) and conclude that none of them can adequately explain the widespread failure to screen out windfalls. From the perspective of managerial power, however, the failure to filter out general market or industry effects is not at all puzzling. Under this approach, compensation schemes are designed to benefit executives without being perceived as clearly unreasonable. Given that using conventional options will be legitimate and acceptable (after all, most firms use them) and that moving to indexing or any other form of reduced-windfall options is likely to be costly or inconvenient for managers, the lack of any real movement toward such options is consistent with the managerial power approach.

# **At-the-Money Options**

Almost all of the stock options used to compensate executives are "at-themoney"—that is, their exercise price is set to the grant-date market price (Murphy, 1999, p. 2509). An optimally designed scheme would seek to provide risk averse managers with cost-effective incentives to exert effort and make value-maximizing decisions. The optimal exercise price under such a scheme would depend on a multitude of factors that are likely to vary from executive to executive, from company to company, from industry to industry and from time to time. Such factors might include the degree of managerial risk aversion (which in turn might be affected by the manager's age and wealth), the project choices available to the company, the volatility of the company's stock, the expected rate of inflation and the length of the manager's contract, among other things. There is no reason to expect that "one size fits all"—that the same exercise price is optimal for all executives at all firms, in all industries and at all times.

It is therefore highly unlikely that out-of-the-money options—options whose exercise price is above the current market price—are never optimal. Out-of-themoney options have a lower expected value than at-the-money options because they are less likely to pay off than at-the-money options, and when they do pay off the holder receives less value. Thus, for every dollar of expected value, a firm can give an executive more out-of-the money options than at-the-money options. By giving more out-of-the money options, the firm can increase the reward to the manager for doing particularly well. Out-of-the-money options thus can offer much higher pay-for-performance sensitivity per dollar of expected value than conventional options (Hall, 1999). There is even evidence suggesting that giving managers out-of-the-money options rather than at-the-money-options would, on average, boost firm value (Habib and Ljungqvist, 2000). The almost uniform use of at-the-money options is thus difficult to explain from an optimal contracting perspective. Indeed, economists working within optimal contracting have called this practice a "puzzle" (Hall, 1999, p. 43).

The near uniform use of at-the-money options is not puzzling, however, when examined under the managerial power approach. Everything else equal, executives prefer a lower exercise price. Because at-the-money options might sometimes be optimal and are employed by almost all other firms, their use in any given case will not generate outrage. Therefore, compensation plan designers have little reason to increase the exercise price above the grant-date market price.

Executives would be even better off, of course, if stock options were issued with an exercise price below the grant-date market price. However, such in-the-money options would create a salient windfall and might generate some outrage costs. Furthermore, in-the-money options would trigger a charge to accounting earnings, which might undermine a main excuse for not using indexed options or other reduced-windfall options—that the use of such options would hurt reported earnings (Bebchuk, Fried and Walker, 2002). Because in-the-money options would thus be difficult or costly for plan designers to use, and at-the-money options are the most favorable to managers within the remaining range of possibilities, a uniform use of at-the-money options is consistent with the managerial power approach.

# Managers' Freedom to Unwind Equity Incentives

Another problem for the optimal contracting approach is managers' broad freedom to unload their options and shares. When managers unwind their equity incentives, restoring pay-performance sensitivity requires giving them new options or shares. Thus, such unwinding either (1) weakens managers' incentives or (2) forces the firm to give managers new equity incentives to restore incentives to the pre-unwinding level.

Although an executive becomes entitled to options once they have vested, the compensation contract could preclude the executive from "cashing out" the vested options—that is, from exercising the options and then selling the acquired shares—for a specified period after the vesting date. Such a limitation would maintain incentives for that additional period without requiring the firm to grant new options to replace the ones cashed out.

To be sure, restrictions on executives' ability to cash out vested equity instruments impose liquidity and diversification costs that must be balanced against the incentive benefits of restricting unwinding. The efficient arrangement is thus likely to vary from case to case, depending on the executive's and the firm's characteristics. But there is no reason to expect that optimal contracts would generally make the vesting date and the cash-out date identical.

In practice, however, the date on which options vest and the date on which they are exercisable are almost always the same. A minority of firms have created "target ownership plans" that require managers to hold a certain amount of shares (Core and Larcker, 2002). But the targets tend to be rather low, and there often appears to be no penalty imposed for missing them. As a result of weak restrictions on unwinding, managers exercise many of their options well before the options expire and sell almost all of the shares thereby acquired (Carpenter, 1998; Ofek and Yermack, 2000). Shares that are not sold after option exercise are often hedged or partially hedged in transactions that are not reported to the Securities and Exchange Commission (Bettis, Bizjack and Lemmon, 2001).

Managers also typically have freedom to determine the precise time of unwinding, a practice that is also difficult to explain under optimal contracting. Although trading on "material" inside information is illegal, the definition of "materiality" and the difficulties of enforcement are such that managers making selling decisions can use their superior knowledge about the firm with little fear of liability (Fried, 1998). As a result, managers are able to obtain abnormal returns trading in their firm's shares (Seyhun, 1998). It is far from clear, however, that enabling managers to make such profits is an efficient form of compensation.

Even assuming it were desirable to permit managers to unload shares at a certain stage in their contracts, it does not follow that executives should have absolute control over the exact timing of their sales. After all, liquidity or diversification needs are unlikely to arise unexpectedly one morning. Firms could require that sales be carried out gradually over a specified period, perhaps pursuant to a pre-arranged plan. Alternatively, firms could require executives to disclose publicly in advance their intended trades, which would reduce executives' ability to profit from their informational advantage (Fried, 1998). Yet firms generally do not impose any such restrictions.

Because a firm can be held liable if it fails to take reasonable steps to prevent insider trading by its employees, a number of firms have adopted "trading windows" and "blackout periods" to restrict the times during the year when a manager can sell or buy shares (Bettis, Coles and Lemmon, 2000). However, many firms have not put such restrictions in place. And even in firms that have imposed such restrictions, managers who know undisclosed bad news during a trading window may use that trading opportunity to unwind a substantial amount of their holdings. Thus, executives retain the ability to dump shares before bad news becomes public. In one notorious case, Enron insiders sold hundreds of millions of shares before information about Enron's actual financial condition was released and the stock price collapsed.

Although managers' ability to unwind equity incentives early and to control

the time of such unwinding cannot easily be explained under optimal contracting, it is quite consistent with the managerial power approach. Broad freedom to unload equity instruments provides managers with substantial benefits that are not particularly conspicuous. The corresponding costs to shareholders from diluted incentives are also not salient. Furthermore, and perhaps most importantly, managers' unwinding of options and shares provides a convenient justification for frequently granting managers new equity-based incentives, thereby boosting their total compensation. Although a system of constant unwinding and replenishing incentives is more costly to shareholders than one that requires managers to hold options and shares for longer periods, it is obviously much better for managers.

# The "Perceived Cost" Explanation

Murphy (2002) and Hall and Murphy (this issue) put forward a "perceived cost" explanation for the use of conventional, at-the-money options. According to their explanation, executives and directors erroneously perceive conventional options to be "cheap" or even "nearly free to grant" because such options can be granted without any cash outlay and without reducing reported earnings.

We doubt that executives and their advisers cannot grasp the costs of conventional options to shareholders. Assuming that Hall and Murphy are correct in suggesting that managers believe that the stock market is influenced by accounting numbers rather than underlying economic reality, this would at most mean that executives believe that investors underestimate or ignore the costs of options that are not expensed for accounting purposes—not that executives themselves fail to see the significant economic costs that conventional options impose on shareholders (whose ownership interest the options dilute).

One might even be skeptical that directors, many of whom are executives themselves, fail to understand the costs of options to shareholders. Indeed, if directors had so little financial sophistication, then the board-monitoring model of corporate governance is in even worse shape than our analysis suggests. Let us suppose, however, that directors have been oblivious to the true cost of conventional options. If so, such a misperception on the part of directors is best seen not as an alternative to the managerial power explanation, but rather as one of the factors contributing to managers' ability to exert considerable influence over the terms of their pay.

As we discussed earlier, there are several reasons why boards cannot be expected to engage in arm's length negotiations with the CEO over executive compensation; one of them is directors' lack of easy access to accurate, unbiased information. To the extent directors in fact did misperceive the cost of options, such a misperception would simply be part of the informational problem that contributes to directors' willingness to approve suboptimal arrangements. If directors were ignorant about such an important and widely discussed issue as the actual cost of options, they would likely be inadequately informed about other features of compensation arrangements.

In our view, inadequate information is only one of the factors, alongside

inadequate incentives and others, that might lead directors to agree to pay arrangements that favor managers. For one thing, directors' confusion over the cost of options cannot explain the systematic relationship between power and pay and managers' efforts to make compensation less salient that we discussed earlier. For many purposes, however, it does not matter whether directors' willingness to accept arrangements that favor executives is the result of conscious favoritism, honest misperceptions, inadequate incentives to exert effort, or some combination of these factors. The important thing is that directors do not adequately represent shareholders' interests in bargaining with managers over their pay and that these pay arrangements consequently depart from the arm's length model in directions favorable to executives.

# Costs to Shareholders

What are the costs imposed on shareholders by managers' influence over their own pay? To begin with, there is the excess pay managers receive as a result of their power—the difference between what managers' influence enables them to obtain and what they would receive under an arm's length arrangement. Some might think that this problem is only symbolic, and that these rents have little effect on shareholders' bottom line. But a close look at the amounts involved indicates that they add up to much more than small change. In 2000, CEO compensation was on average 7.89 percent of corporate profits in the firms making up the 1500-company ExecuComp dataset (Balsam, 2002, p. 262).

Furthermore, and perhaps more importantly, managers' ability to influence their pay leads to compensation arrangements that generate worse incentives than those that arm's length contracts would provide. Managers have an interest in compensation schemes that camouflage the extent of their rent extraction or that put less pressure on them to reduce slack. As a result, managerial influence might lead to the adoption of compensation arrangements that provide weak or even perverse incentives. In our view, the reduction in shareholder value caused by these inefficiencies, rather than the excess rents captured by managers, could be the largest cost arising from managers' ability to influence their compensation.

To begin, compensation arrangements currently provide weaker incentives to reduce managerial slack and increase shareholder value than likely would be provided by arm's length arrangements. As explained, both the non-equity and equity components of managers' compensation are substantially more decoupled from managers' own performance than appearances might suggest. Shareholders thus might benefit substantially from the improved performance that a move toward optimal contracting arrangements could generate.

Prevailing practices not only fail to provide cost-effective incentives to reduce slack, but also create perverse incentives. For one thing, they provide managers' incentives to change firm parameters in a way that would justify increases in pay. Consider, for example, the familiar problem of empire building. It is commonly believed that the practice of granting options provides managers with incentives not to undertake acquisitions that are value-decreasing for shareholders. This is clearly the case, however, only in a static model in which all option grants are made before managers make acquisition decisions. In a dynamic model, managers considering an expansion decision that is somewhat value decreasing for shareholders would have different incentives: While such an expansion would reduce the value of their current options, it may raise their aggregate future compensation by an even greater amount because a larger firm size can be used to justify higher pay.

Furthermore, managers' broad freedom to unload equity incentives can produce substantial inefficiencies. Executives who expect to unload their shares or options have weaker incentives to exert effort when the payoff is not going to be recognized by the market at the time they unwind their equity positions (Bar-Gill and Bebchuk, 2003a). Such executives also have incentives to misreport corporate performance and suppress bad news (Bar-Gill and Bebchuk, 2002). Indeed, such executives also have an incentive to choose projects that are less transparent or to reduce the transparency of existing projects (Bar-Gill and Bebchuk, 2003b). The efficiency costs of such distortions might exceed, possibly by a large margin, whatever liquidity or risk bearing benefits executives obtain from being able to unload their options and shares at will.

#### Conclusion

There are good theoretical and empirical reasons for concluding that managerial power substantially affects the design of executive compensation in companies with a separation of ownership and control. Executive compensation can thus be fruitfully analyzed not only as an instrument for addressing the agency problem arising from the separation of ownership and control—but also as part of the agency problem itself.

The conclusion that managerial power and rent extraction play an important role in executive compensation has significant implications for corporate governance, which we explore in our forthcoming book (Bebchuk and Fried, 2004). It is important to note, however, that this is an area in which widespread recognition of the problem might contribute to alleviating it. The extent to which managerial influence can move compensation arrangements away from optimal contracting outcomes depends on the extent to which market participants, especially institutional investors, recognize the problems we have discussed. Financial economists can thus make an important contribution to improving compensation arrangements by analyzing how current practices deviate from those suggested by optimal contracting. We hope that future studies of executive compensation will devote to the role of managerial power as much attention as the optimal contracting model has received.

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