

Shareholder Value Advisors

May 30, 2025

The Honorable Paul Atkins
Chairman
U.S. Securities & Exchange Commission
100 F Street, NE
Washington, DC 20549-1090

RE: File Number 4-855 Executive Compensation Disclosure Requirements

Dear Chairman Atkins:

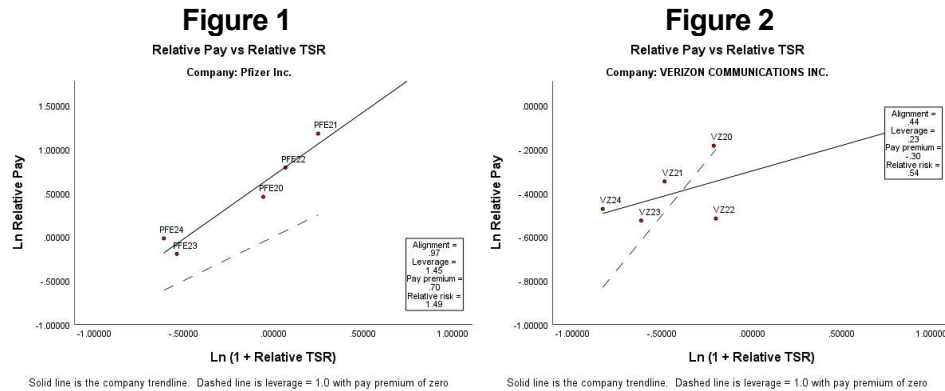
I am the President of Shareholder Value Advisors Inc., a consulting firm that helps companies improve shareholder value through better performance measurement, incentive compensation and valuation analysis. I have done extensive research on pay versus performance including work to measure the sensitivity of management pay to changes in shareholder value and to assess the impact of alignment, pay leverage and compensation cost on subsequent company performance. My published research includes “How and why U.S. executive pay should change” (*Open Access Government* e-book April 2025), “Measuring and Improving Pay for Performance” in the *Handbook of Board Governance* (3rd edition, 2024), “What Public Companies Can Learn From Private Equity” in the *Journal of Applied Corporate Finance* (Summer 2020), “Say on Pay: Is It Needed? Does It Work?” in the *Journal of Applied Corporate Finance* (Winter 2018), “Three Versions of Perfect Pay for Performance” in the *Journal of Applied Corporate Finance* (Winter 2014), “The Three Dimensions of Pay for Performance” in the *WorldatWork Journal* (4th Quarter 2013), and “Achieving Pay for Performance” in *Conference Board Director Notes* (December 2012).

I am writing to show that the Compensation Actually Paid (CAP) data in the Pay Versus Performance (PvP) disclosure is highly informative for investors, allowing them to estimate four key pay dimensions (incentive strength, alignment, performance adjusted cost and relative pay risk), to show that Summary Compensation Table (SCT) pay does not provide accurate estimates of these key pay dimensions and to strongly recommend that the PvP disclosure be retained.

The PvP disclosures give investors the data they need for a highly informative analysis that measures incentive strength, alignment and performance adjusted cost

The PvP disclosures give investors the ability to measure key pay dimensions for public companies. Investors can do this by calculating relative cumulative pay and relative cumulative TSR and then calculating the regression trendline relating the natural log of relative pay to the natural log of relative TSR. This regression provides measures of four pay dimensions. The slope of the trendline provides a measure of incentive strength, what I call “pay leverage”. Pay leverage is the percent change in relative pay associated with a one percent change in relative shareholder wealth. The correlation provides a measure of alignment. The intercept provides a measure of performance adjusted cost, i.e., the pay premium at peer group average performance. The ratio of pay leverage to pay alignment (i.e., the slope divided by the correlation) provides a measure of relative pay risk.

Figure 1 shows the pay leverage trendline for Pfizer CEO Albert Bourla while Figure 2 shows the trendline for Verizon CEO Hans Vestberg. The peer group used to compute relative TSR for Pfizer is the NYSE ARCA Pharmaceutical Index. The peer group used to compute relative TSR for Verizon is the S&P 500 Telecommunications Services Index. The solid line is the regression trendline. The dashed line is a line with a slope of 1.0 and an intercept of 0.0. It's included in the graph to show how the company differs from the Perfect Correlation Pay Plan that makes relative pay equal to relative performance.



The measures we get from regressing log relative pay on log relative performance provide measures of a company's success in achieving the three basic objectives of executive pay: providing strong incentives to increase shareholder value, retaining key talent and limiting shareholder cost. The slope of the trendline for Pfizer CEO Albert Bourla is 1.45. This means that a 1% increase in relative shareholder wealth increases the CEO's relative cumulative pay by 1.45%. This provides a very strong incentive to increase shareholder value. By contrast, the slope of the trendline for Verizon CEO Hans Vestberg is only 0.23. This means that a 1% increase in shareholder wealth increases the CEO's pay by only 0.23%. Comparing the two graphs shows that the Pfizer CEO's incentive to increase shareholder wealth is 6 times greater than the Verizon CEO's incentive.

The intercept is the pay premium at peer group average performance. It provides a negative measure of retention risk and a positive measure of shareholder cost. The pay premium for Pfizer is 0.70. It's stated in natural logarithms. We can convert it to a percentage premium by taking the anti-log. The percentage premium is 101% ($= \exp(0.70) - 1$). This says that Pfizer pays 101% above market at average performance. This pay premium limits retention risk because Pfizer pays above average for average performance. It raises shareholder cost for the same reason. The pay premium shows that Pfizer draws the balance between limiting retention risk and limiting shareholder cost heavily in favor of limiting retention risk. The natural log pay premium for Verizon is -0.30. The percentage pay "premium" is -26%. This pay premium shows that Verizon draws the balance between limiting retention risk and limiting shareholder cost modestly in favor of limiting shareholder cost.

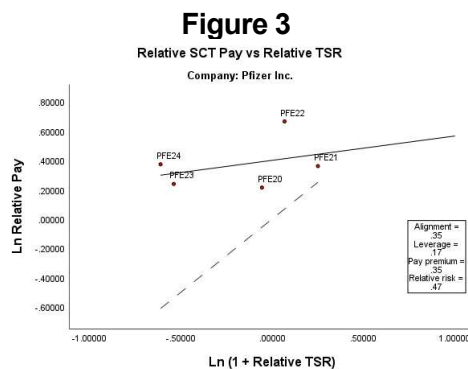
Doing this analysis requires some work by investors or their proxy advisors. Market pay is not reported in the PvP disclosure but is needed to calculate relative pay. Investors and proxy advisors can easily calculate market pay using industry regression trendlines relating the natural log of CEO SCT pay to the natural log of company revenue. The proxy advisor ISS uses a computationally simpler approach, calculating pay market using small groups of

similarly sized companies to control for the impact of company size on pay. Investors or their proxy advisors also need to calculate the expected accretion in market pay. Market pay is a present value number while CAP is a future value number, so market pay needs to be adjusted upward to reflect the expected difference between future value and present value. My analysis of the 2024 PvP disclosures shows an expected difference of 5% a year. Investors or their proxy advisors also need to adjust Compensation Actually Paid to take out the pay attributable to unvested grants made prior to the five year performance period. This ensures that performance is compared to the pay granted in the same period and gives more accurate estimates of pay leverage, pay alignment and the pay premium at peer group average performance. I make this adjustment using two tables from the proxy, Outstanding Equity Awards and Grants of Plan-Based Awards, and the reconciliation of CAP to SCT pay in the PvP disclosures, in particular, the value changes of awards granted in prior years. This adjustment highlights the importance of the reconciliation included in the PvP disclosure. The reconciliation should be retained.

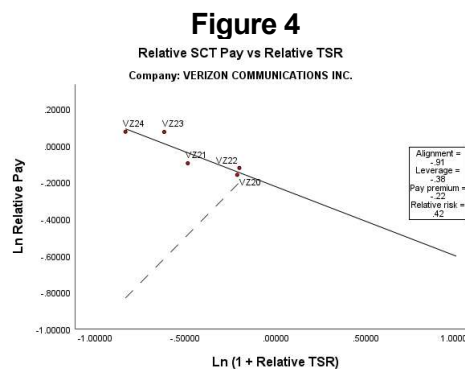
The proxy advisor ISS has used individual company regressions for years in its Pay-TSR Alignment measure. It has also compared relative pay with relative performance, using one observation for each company, for years in its Relative Degree of Alignment measure. It will eventually realize that combining the two analyses, i.e., doing individual company regressions using relative pay and relative performance, provides far more insight.

Compensation Actually Paid is far more informative than Summary Compensation Table pay because it captures changes in the value of unvested equity

The PvP disclosure provides far more useful information for investors than the Summary Compensation Table because CAP reflects changes in the value of unvested equity while SCT pay just reflects grant date value. We can see that SCT pay is far less informative than CAP if we do relative pay vs relative TSR regressions for Pfizer and Verizon using SCT pay. Figure 3 shows the graph for Pfizer and Figure 4 shows the graph for Verizon. In these graphs, relative pay is based on annual SCT pay, not cumulative SCT pay. We use annual, not cumulative, SCT pay because the Perfect Correlation Pay Plan shows us that a perfect correlation of relative cumulative mark to market pay and relative cumulative TSR requires a perfect correlation of annual grant date pay, not cumulative grant date pay, with relative cumulative TSR.



Solid line is the company trendline. Dashed line is leverage = 1.0 with pay premium of zero

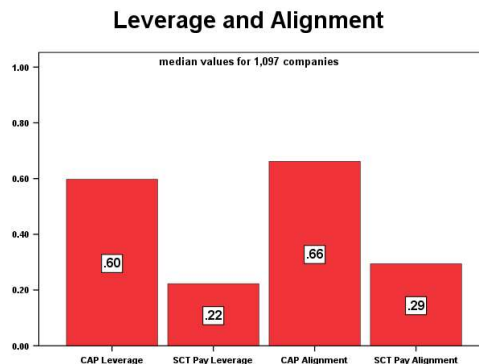


Solid line is the company trendline. Dashed line is leverage = 1.0 with pay premium of zero

Comparing the PvP graphs with the SCT pay graphs shows that the PvP disclosures provide much more accurate information for investors. An investor looking at SCT pay for Pfizer CEO Albert Bourla would conclude that he has a very weak incentive to increase shareholder value because his pay leverage is only 0.17. The PvP disclosure shows that the Pfizer CEO has a very strong incentive, with pay leverage (1.45) almost 9 times greater than what the investor sees in SCT pay. An investor looking at SCT pay for Verizon CEO Hans Vestberg would conclude that he has a perverse incentive. His pay leverage is negative, -0.38, so pay goes up when relative shareholder wealth declines. The PvP disclosure shows that the Verizon CEO has modest positive pay leverage of 0.23.

Figure 5 shows that the PvP disclosure gives investors a very different picture of CEO leverage and alignment than SCT pay. Based on PvP and SCT data for 2020-2023 for a sample of 1,097 companies, all with the same CEO in office for all four years, the PvP disclosures tell investors that CEO pay leverage is almost three times greater, 0.60 vs 0.22, than it appears from SCT pay data and that CEO pay alignment is more than twice as great, 0.66 vs 0.29, than it appears from SCT pay data. Alignment is the correlation of relative pay and relative TSR. Alignment squared is the percentage of the variation in relative pay than is explained by relative TSR. When we look at alignment (r-sq), we can see that the information from the PvP disclosures is dramatically different from the SCT pay information. The PvP disclosure shows that relative TSR explains 44% ($= 0.66 \times 0.66$) of the variation in relative pay for the median CEO, while the SCT pay disclosure shows that relative TSR explains only 8% ($= 0.29 \times 0.29$). Thus, the PvP disclosure tells us that alignment (r-sq) is more than five times greater than it appears from the SCT pay disclosure.

Figure 5



The PvP disclosures encourage investors and companies to benchmark incentive strength, alignment and performance adjusted cost, not just pay level and pay mix

CAP provides a comprehensive measure of pay so pay dimensions calculated from CAP are far more meaningful than pay dimensions calculated from SCT pay. Currently, companies rarely benchmark measures other than pay level and pay mix. With five years of CAP data available now and in the future, investors and companies will find it worthwhile to extend their benchmarking to pay leverage, pay alignment, the pay premium at industry average performance and relative pay risk.

Data from 2024 PvP disclosures shows wide variations in pay leverage and the pay premium at industry average performance, as Figures 6 and 7 show. The availability of meaningful benchmarking beyond pay level and pay mix will encourage companies to develop targets for incentive strength, alignment and performance adjusted cost and to monitor their progress in achieving those targets. The wide spread in outcomes, shown in Figures 6 and 7, will surely influence proxy voting recommendations and investor voting.

Figure 6

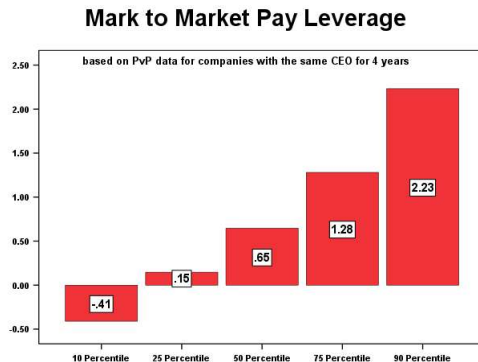
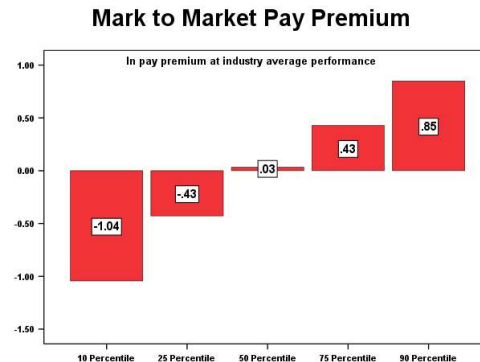


Figure 7



There is a widespread perception that percent of pay at risk is a good proxy for incentive strength and alignment. For example, the 2025 Verizon proxy says that the company has “pay for performance” because “approximately 90% of named executive officers’ total compensation opportunity is variable, incentive-based pay.” The PvP data for 1,097 companies for the years 2020-2023 shows that average percent of pay at risk explains 1.3% of the variation in pay alignment and 0.4% of the variation in pay leverage. This is additional evidence that the PvP disclosures are essential for investors to get an accurate picture of executive pay.

The PvP disclosures encourage investors and companies to identify the conventional pay practices that undermine alignment of relative pay and relative performance

As companies and investors use the PvP data to expand their benchmarking, they will ask, “Is there a pay plan that provides perfect alignment of relative pay and relative performance?”. Their realization that there is a Perfect Correlation Pay Plan could lead to substantial changes in executive pay.

The Perfect Correlation Pay Plan is a simple pay plan with annual grants of performance shares that provides a perfect correlation of relative pay and relative performance. The plan differs from conventional practice in three ways. First, target pay is not market pay, but market pay adjusted for trailing relative performance. Target pay equals market pay $\times (1 + r_{TSR})$ so poor performance leads to target pay below market, while superior performance leads to target pay above market. Second, the vesting multiple is not $[1 + r_{TSR}]$, but $[1/(1 + i_{TSR})]$ where i_{TSR} is the industry or peer group return from the date of grant. This vesting multiple takes out the industry component of the stock return, leaving the executive with the initial grant value plus the relative return. Third, base salary and other cash paid out prior to retirement is treated as a draw against the value of the performance shares, not an independent entitlement. The Perfect Correlation Pay Plan is described in more detail in my

paper "Three Versions of Perfect Pay for Performance (Or The Rebirth of Partnership Concepts in Executive Pay", *Journal of Applied Corporate Finance* (Winter 2014).

The PvP disclosure provides highly informative data that is not available from SCT pay, as I've shown above. To ensure that investors continue to have this highly informative data, I strongly urge the Commission to retain the PvP disclosure requirements. To provide additional background on the problems of U.S. executive pay and the vital role that the PvP disclosures can play in solving them, I've attached a copy of my paper on "How and why U.S. executive pay should change" published by Open Access Government.

I appreciate the opportunity to comment and I hope my comments are useful to the Commission in its review of executive compensation disclosure requirements.

Sincerely,

A handwritten signature in black ink that reads "Stephen F. O'Byrne". The signature is written in a cursive, flowing style with a large initial 'S'.

Stephen F. O'Byrne
President

Stephen F. O'Byrne President	Direct Dial: 914-833-5891
	Email: sobyrne@valueadvisors.com
<p>Steve O'Byrne is President and co-founder of Shareholder Value Advisors Inc., a consulting firm that helps companies increase shareholder value through better performance measurement, incentive compensation and valuation analysis. His publications include:</p> <ul style="list-style-type: none"> • <i>EVA and Value-Based Management</i> (with Professor David Young of INSEAD), McGraw-Hill (2001) • "Why and how U.S. executive pay should change" <i>Open Access Government</i> e-book (April 2025) • "Measuring and Improving Pay for Performance" in the <i>Handbook of Board Governance</i> (3rd edition, 2024) • "Employee Value Added: A New Measure of Gain Sharing Between Labor and Capital" in the <i>Journal of Applied Corporate Finance</i> (Spring 2022) • "Say on Pay: Is It Needed? Does It Work?" in the <i>Journal of Applied Corporate Finance</i> (Winter 2018) • "Three Versions of Perfect Pay for Performance (Or The Rebirth of Partnership Concepts in Executive Pay)" in the <i>Journal of Applied Corporate Finance</i> (Winter 2014) • "The Three Dimensions of Pay for Performance" in the <i>WorldatWork Journal</i> (4th Quarter 2013) • "Achieving Pay for Performance" in <i>Conference Board Director Notes</i> (December 2012) • "What Investors Need to Know About Executive Pay" (with David Young) in <i>The Journal of Investing</i> (Spring, 2010) • "Why Executive Pay Is Failing" (with David Young) in the <i>Harvard Business Review</i> (June 2006) • "Executive Compensation" in the <i>Handbook of Modern Finance</i> (1997) <p>Prior to co-founding Shareholder Value Advisors in 1998, Mr. O'Byrne was head of the compensation consulting practice at Stern Stewart & Co. (1992-1998) and a Principal in the executive compensation consulting practice at Towers Perrin. Prior to joining Towers Perrin in 1979, he worked in the tax department at Price Waterhouse and taught mathematics at Loyola University of Chicago. Mr. O'Byrne holds a B.A. degree in political science from the University of Chicago, an M.S. in Mathematics from Northwestern University and a J.D. from the University of Chicago.</p>	



Why and how U.S. executive pay should change

AUTHOR: Stephen F. O'Byrne, Shareholder Value Advisors

SHAREHOLDER VALUE ADVISORS

In this e-book, I explain the origins of U.S. executive pay practices, highlight the shortcomings of the measures commonly used to guide pay design, propose better measures of pay dimensions, and show how these better measures can improve benchmarking, pay design, and Say-on-Pay voting.

U.S. executive pay has shifted from value sharing to target dollar pay

The objectives of executive pay have been the same since the rise of large companies in the late nineteenth century. Shareholders want to provide strong incentives for managers to increase shareholder value while retaining key talent and limiting shareholder cost. What's changed is how companies try to achieve these objectives. In the first half of the twentieth century, executive pay was based on value sharing in economic profit. Since then, executive pay has shifted from sharing formulas to target pay values based on labor market analysis.

In 1922, General Motors adopted an executive pay plan that made the total bonus pool equal to 10% of economic profit, that is, profit in excess of a 7% return on capital. This formula covered stock and cash incentive compensation for everyone at GM who got a bonus. GM used this formula for 25 years without any change in the sharing percentage or the required return. It used the same basic concept, with slight changes in the sharing percentage and required return, for 66 years (1918 through 1983). In 1936, a study by John Baker of Harvard Business School found that 18 of 22 companies studied had similar plans.

The GM type plan does a good job of providing strong incentives and controlling shareholder cost but can make retaining key talent challenging. The plan provides strong incentives because the sharing percentage is held constant. If employees double economic profit, they get double the bonus. It limits shareholder cost because the sharing percentage doesn't rise above 10%. It can have a more difficult time retaining key talent because the bonus formula can be zero due to market and industry factors beyond management's control. GM improved its ability to limit retention risk by creating a bonus reserve. The bonus reserve was created by paying out less than the formula amount in good years to provide

additional funds for bonuses in years with poor performance due to market and industry factors.

Since the 1950s, U.S. executive pay has shifted from target sharing to target dollar pay. Target dollar pay is expressed in terms of industry or peer group pay, e.g., target pay is the 50th percentile of peer group pay. The conventional wisdom is the 50th percentile target pay with a high percentage of pay at risk will achieve the three basic objectives of executive pay. The company will retain key talent because it doesn't allow target pay to fall below the 50th percentile. It will limit shareholder cost because it doesn't allow target pay to rise above the 50th percentile and it will provide strong incentives as long as the percent of pay at risk is high.

There is a flaw in the conventional wisdom of providing target dollar pay: It creates a "performance penalty" that undermines management incentives

There is a flaw in the conventional wisdom. A high percentage of pay at risk doesn't ensure a strong incentive. Target dollar pay creates a fundamental "performance penalty" that reduces management's incentive and undermines the alignment of cumulative pay and cumulative performance. We can see this if we compare the consequences of target dollar pay for two scenarios with the same cumulative performance. In "Good Early Performance" in Figure 1 the stock starts at \$10, then rises to \$33.04 at the end of year 3 before dropping to \$20.91 at the end of year 5. In "Bad Early Performance" the stock starts at \$10, then falls to \$5.55 at the end of year 2 before recovering to \$20.91 at the end of year 5.

In each scenario, we provide a stock grant equal to market pay (\$1,000) based on the stock price at the start of the year. In year one, our CEO gets the same number of shares (100) in each scenario. But, in year two, our CEO gets only 47.4 shares in Good Early Performance because the stock price at the start of year two is \$21.12, so only 47.4 shares are needed to provide \$1,000 of pay. By contrast, our CEO gets 135.9 shares in Bad Early Performance because the stock price at the start of year two is \$7.36 and 135.9 shares are needed to provide \$1,000 of pay. When we continue through the five years of each scenario, we find that our CEO receives a total of 253.8 shares in Good Early Performance, but gets 680.2 shares in Bad Early Performance.

Figure 1

	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
Market pay		1,000	1,000	1,000	1,000	1,000
Beginning stock x (1 + industry return)	10.00	10.26	9.16	10.67	14.62	20.07
GOOD EARLY PERFORMANCE						
Stock price	10.00	21.12	22.52	33.04	31.53	20.91
Shares (= market pay / BOY stock price)		100.0	47.4	44.4	30.3	31.7
Cumulative shares		100.0	147.4	191.8	222.0	253.8
Year end wealth		2,112	3,318	6,335	7,000	5,305
BAD EARLY PERFORMANCE						
Stock price	10.00	7.36	5.55	6.27	9.54	20.91
Shares (= market pay / BOY stock price)		100.0	135.9	180.1	159.4	104.9
Cumulative shares		100.0	235.9	416.0	575.4	680.2
Year end wealth		736	1,310	2,610	5,487	14,221

“Year end wealth” shows the calculation of cumulative “mark to market” pay at the end of each year. Cumulative mark to market pay is the value of cumulative pay based on the stock price at the end of the year. Our Bad Early Performance CEO gets five year cumulative mark to market pay of \$14,221. This is 2.7x more than the \$5,305 that our Good Early Performance CEO gets for the same cumulative performance. Let’s now compare the relative pay and relative performance for our two CEOs. Relative pay is mark to market pay divided by cumulative market pay, \$5,000. Our Bad Early Performance CEO has cumulative relative pay of 2.84 at the end of five years, while our Good Early Performance CEO has cumulative relative pay of 1.06. Relative performance is the ending shareholder wealth per share, \$20.91, divided by shareholder wealth per share assuming industry average performance, \$20.07, a ratio of 1.04. This shows that our Bad Early Performance CEO is paid far more than his relative performance warrants.

The conventional wisdom is that the percent of pay at risk is a good proxy for incentive strength. We can see in this example that both CEOs have 100% of their pay at risk but that the Bad Early Performance CEO receives a lot more money for the same performance. This suggests that percent of pay at risk is not a great measure of incentive strength. A better measure of incentive strength is the ratio

of relative cumulative pay to relative cumulative performance. For Bad Early Performance, the ratio is 2.73 (= 2.84/1.04) at the end of five years, but it varied from 1.03 to 2.10 in the four years before that. For the Good Early Performance, the ratio is 1.02 (= 1.06/1.04) at the end of five years, but it varied from 0.67 to 1.03 in the four years before that.

Given that the sensitivity of relative pay to relative performance varies over time, we need a reasonable method to determine the average sensitivity over time. One useful way to do this is to calculate the regression trendline relating relative cumulative pay to relative cumulative performance for the five years. We get a more accurate measure of the relationship if we calculate the regression trendline using the logarithms of relative pay and relative performance. When we use logarithms, we’re assuming that the prediction errors are proportional to the relative performance ratio, not a constant ratio amount. Using logarithms, we find that the slope of the trendline is 0.61 for Good Early Performance and 2.18 for Bad Early Performance. This means that a 1% increase in relative performance increases relative pay by 0.6% for Good Early Performance, but by 2.2% for Bad Early Performance. This says that Bad Early Performance gives our CEO an incentive that is 3.6x greater than that he would have with Good Early Performance.

It's important to recognize that our measure of incentive strength depends on our ability to calculate mark to market pay. If we limit ourselves to grant date pay, we see no difference between Good Early Performance and Bad Early Performance. Both CEOs receive \$1,000 of pay each year. Prior to 2023, investors in U.S. public companies had to estimate mark to market pay from the grant data reported in prior year proxies. This is an arduous task (I've done it!), so investors and their proxy advisors made no effort to calculate mark to market pay or to measure pay dimensions based on mark to market pay. In 2023, pursuant to regulations adopted in 2022 to implement a requirement, created by the Dodd-Frank Act of 2011, to disclose "Pay Versus Performance" including "Compensation Actually Paid", companies were required to report mark to market pay for the prior three years. In 2024, a four year history was required, and, in 2025 and subsequent years, a five year history is required.

The newly required disclosure of "Compensation Actually Paid" leads to a simple and highly informative analysis that measures incentive strength, alignment and performance adjusted cost

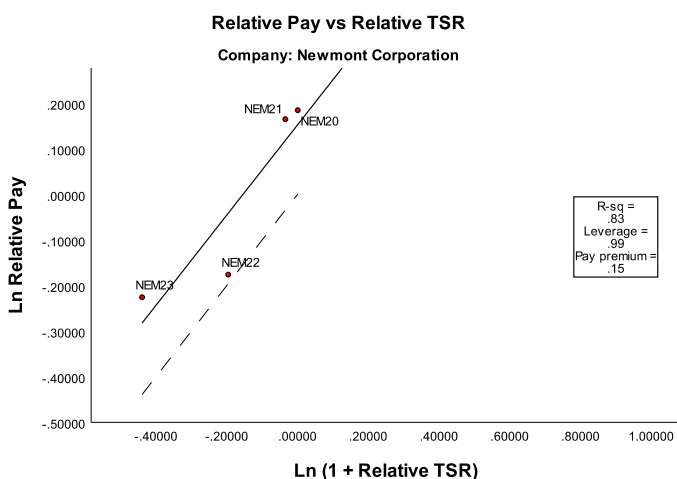
The new "Pay Versus Performance" disclosures give us the ability to measure key pay dimensions for public companies. In this report, we limit our analysis to 1,097 companies with the same CEO for the past four years. We measure pay dimensions by calculating relative pay and relative TSR and then calculating the

regression trendline relating the natural log of relative pay to the natural log of relative TSR. This regression gives us measures of four pay dimensions. The slope of the trendline gives us a measure of incentive strength, what we call "pay leverage". Pay leverage tells us the percent change in relative pay associated with a one percent change in relative shareholder wealth. The correlation gives us a measure of pay alignment. The intercept gives us a measure of performance adjusted cost, i.e., the pay premium at peer group average performance. The ratio of pay leverage to pay alignment (i.e., slope divided by correlation) gives us a measure of relative pay risk.

Let's look at two examples. Figure 2 shows the trendline for the Newmont Corporation CEO Thomas Palmer while Figure 3 shows the trendline for Travelers CEO Alan Schnitzer. The peer group used to compute relative TSR for Newmont is a group of seven mining companies selected by Newmont. The peer group used to compute relative TSR for Travelers is 13 insurance and related companies selected by Travelers. The solid line is the regression trendline. The dashed line is a line with a slope of 1.0 and an intercept of 0.0. It's included in the graph to show how the subject company differs from a Perfect Correlation Pay Plan (discussed below) that makes relative pay equal to relative performance.

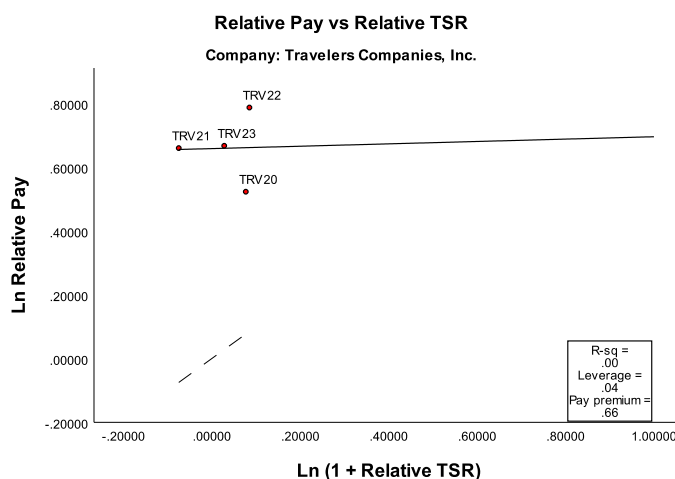
Relative pay is cumulative mark to market pay divided by cumulative market pay. Market pay is not reported in the new disclosures of "Pay Versus

Figure 2



Solid line is the company trendline. Dashed line is leverage = 1.0 with pay premium of zero

Figure 3



Solid line is the company trendline. Dashed line is leverage = 1.0 with pay premium of zero

Performance". We have to estimate market pay using industry trendlines relating the log of CEO pay to the log of company revenue. Since market pay is a present value number, we adjust it upward to reflect the expected difference between future value (i.e., mark to market pay) and present value. We also adjust Compensation Actually Paid to take out pay attributable to unvested grants made prior to the four year performance measurement period.

The measures we get from regressing log relative pay on log relative performance provide measures of a company's success in achieving the three basic objectives of executive pay: providing strong incentives to increase shareholder value while retaining key talent and limiting shareholder cost. The slope of the trendline for Newmont CEO Tom Palmer is 0.99. This means that a 1% increase in relative shareholder wealth increases the CEO's relative pay by almost 1%, 0.99%. This provides a strong incentive to increase shareholder value. By contrast, the slope of the trendline for Travelers CEO Alan Schnitzer is only 0.04. This means that a 1% increase in shareholder wealth increases the CEO's relative pay by only 0.04%. This provides a very weak incentive to increase shareholder value.

The intercept of the trendline is the pay premium at peer group average performance. It provides a negative measure of retention risk and a positive measure of shareholder cost. The pay premium for Newmont is 0.15. It's stated in natural logarithms. We can convert it to a percentage premium by taking

the anti-log. The percentage premium is 16% ($= 100 * (\exp(0.15) - 1)$). This says that Newmont pays 16% above average for average performance. That limits retention risk because Newmont pays above average for average performance. It raises shareholder cost for the same reason. The pay premium shows that Newmont draws the balance between limiting retention risk and limiting shareholder cost slightly in favor of limiting retention risk. The natural log pay premium for Travelers is 0.66. The percentage pay premium is 93% ($= 100 * (\exp(0.66) - 1)$). This pay premium shows that Travelers draws the balance between limiting retention risk and limiting shareholder cost very heavily in favor of limiting retention risk.

Calculating pay dimensions for 1,097 CEOs shows that many have pay problems: Weak incentives, high cost, low alignment or high risk

We have used the new disclosures to calculate pay dimensions for 1,097 U.S. public company CEOs. We limit the sample to companies with the same CEO for all four years.

Figure 4 shows that the median CEO has pay leverage of 0.65. This means that a 1% increase in relative shareholder wealth increases relative pay by 0.65%. Below the median, pay leverage falls to 0.15 at the 25th percentile and to -0.40 at the 10th percentile. Only 15% of the companies below the median have pay leverage that is statistically

Figure 4

Figure 5

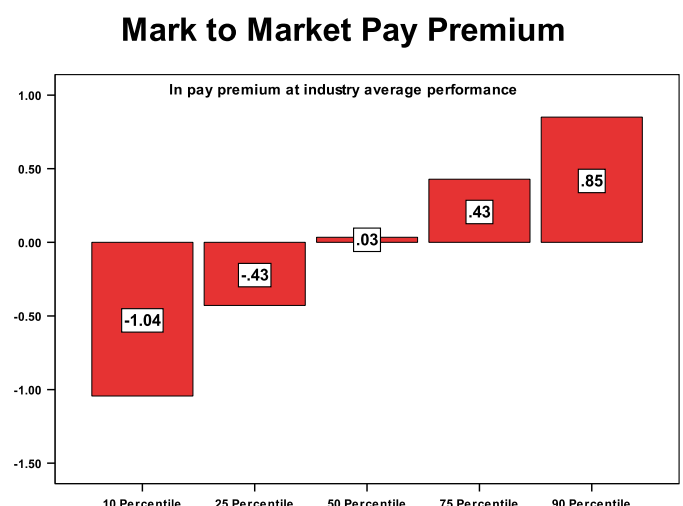
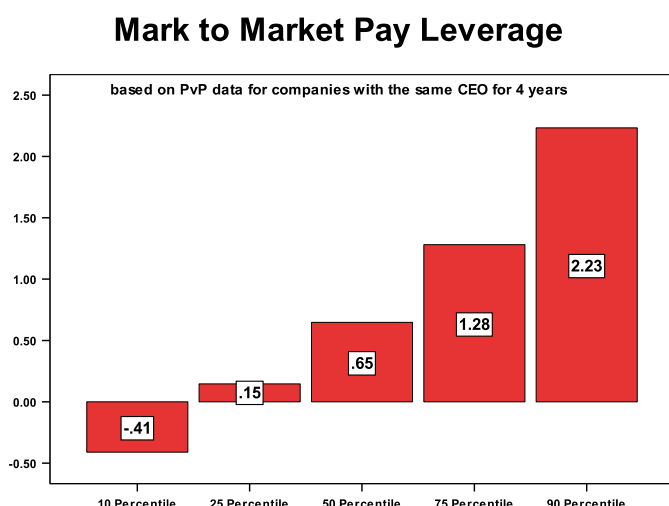
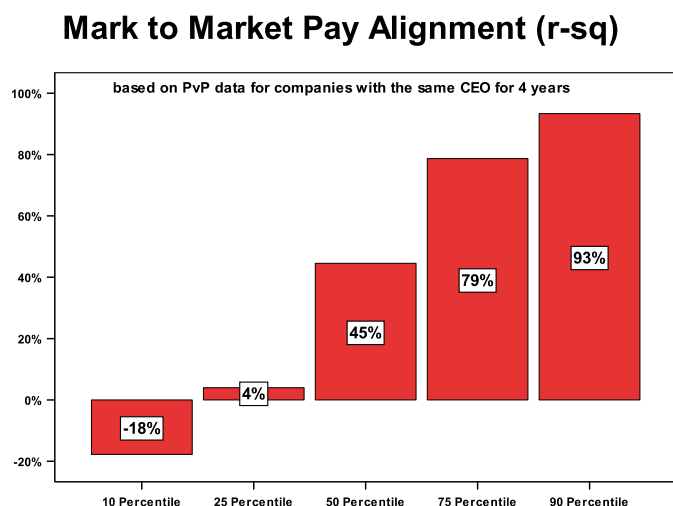


Figure 6

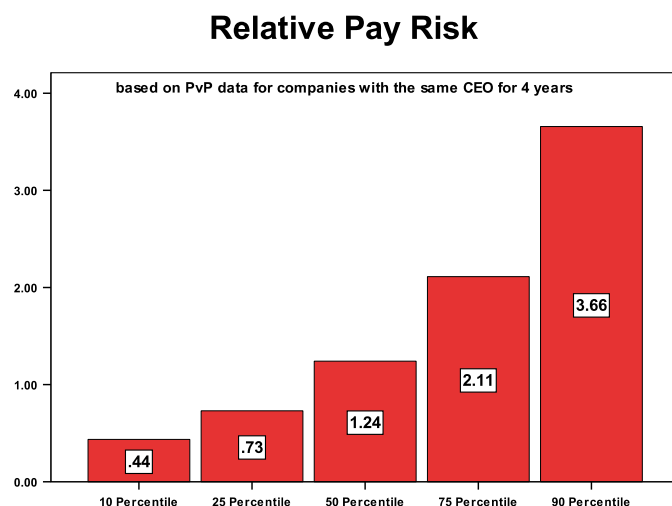


significant at the conventional 5% level. Pay leverage above the median gets up to 2.23 at the 90th percentile and 55% of the companies above the median have pay leverage that is statistically significant. More companies should have statistically significant pay leverage next year when the PvP disclosure expands to five years.

The conventional wisdom says that percent of pay at risk is a good proxy for incentive strength, but our sample of 1,097 CEOs does not support the conventional wisdom. Four year average percent of pay in equity explains only 0.9% of the variation in pay leverage and four year average percent of pay at risk explains only 0.4% of the variation in pay leverage. In other words, both these percent at risk measures explain less than one percent of the variation in pay leverage. The data also shows companies don't need high pay to support high pay leverage. The pay premium at industry average performance explains less than 1% of the variation in pay leverage and the difference between 75th percentile (1.28) and median pay leverage (0.65) is associated with a pay premium of only 3%.

Figure 5 shows percentiles for the pay premium at industry average performance. The values shown are in natural logarithms and can be converted to percentage pay premiums by taking the anti-log. The 90th percentile pay premium of 0.85 implies a percentage pay premium of +134% (since $100 * (\exp(0.85) - 1) = 134\%$) and the 10th percentile pay

Figure 7



premium of -1.04 implies a pay "premium" of -65% (since $100 * (\exp(-1.04) - 1) = -65\%$). The conventional measure of compensation cost, i.e., four year average relative grant date pay, explains 48% of the variation in the mark to market pay premium at industry average performance for our sample of 1,097 companies.

The new disclosures provide compelling evidence that most companies don't do a good job managing CEO pay

The bar charts help us think about a basic question: how many companies do a good job achieving the three basic objectives of executive pay? In other words, how many provide a strong incentive with a reasonable balance between retention risk and shareholder cost? Incentive strength, or pay leverage, is the product of pay alignment and relative pay risk. Since companies have different perspectives about appropriate risk levels, we'll change our question to how many companies provide high alignment with a reasonable balance between retention risk and shareholder cost? We'll define a good job of managing CEO pay as providing alignment (r-sq) of 50%+ with a pay premium at peer group average performance of +/-25% or less. Alignment (r-sq) of 50%+ means that relative performance explains at least half of the variation in relative pay. It's disappointing to report that only 165 companies (15%) of the 1,097 companies in our sample do a good job of managing CEO pay. 303

companies have moderate shareholder cost, i.e., the pay premium at peer group average performance is 25% or less, and limited retention risk, i.e., the pay premium at peer group average performance is no lower than -25%, but 138 of these companies have low alignment (r-sq). This leaves us with only 165 (= 303 – 138) companies.

We get two quite striking pictures when we combine the good and the bad companies in separate scatterplots showing relative pay on the vertical axis against relative TSR on the horizontal axis. In the left panel, Figure 8, showing the good companies, we can see that relative TSR, adjusted for differences in individual company pay leverage, explains 83% of the variation in relative pay. This is what we would expect to see in a universe where pay for performance rules. But, unfortunately, this graph includes only 15% of our sample. In the right panel, Figure 9, with 85% of our sample, we can see that relative TSR explains only 6% of the variation in relative pay. We don't show relative TSR adjusted for differences in individual company pay leverage in this graph because doing so reduces the variance explained.

These two graphs provide compelling evidence that most companies don't do a good job of managing CEO pay. We only have this evidence because companies now report mark to market pay in the newly required Pay Versus Performance disclosure. This shows that the new disclosure requirement is very significant.

The evidence, in Figure 9, of poor pay plan design has had no impact on practice because proxy advisors and compensation consultants haven't been aware of it. Proxy advisors and consultants have long been aware that relative grant date pay is poorly correlated with relative performance but they have dismissed the low correlation as irrelevant. Grant date pay is similar to target pay – because it doesn't reflect post-grant changes in the value of equity compensation – and target pay should be, in the conventional wisdom, unrelated to past performance because it is meant to be sufficient to retain key talent regardless of past performance.

Why don't companies do better? Poorly designed pay measures used by proxy advisor ISS are one reason

The basic concept of plotting relative pay against relative performance has been used by proxy advisors and consultants for many years but has never led to a pay leverage measure. The proxy advisor ISS has long compared CEO performance percentile with CEO pay percentile but it focuses on the difference between the two percentiles, calculated using three year average pay and performance measures. ISS doesn't measure the sensitivity of pay percentile to performance percentile nor the correlation of the pay and performance percentiles. Moreover, by using percentiles instead of relative pay and relative TSR, ISS is telling companies that maintaining a consistent

Figure 8

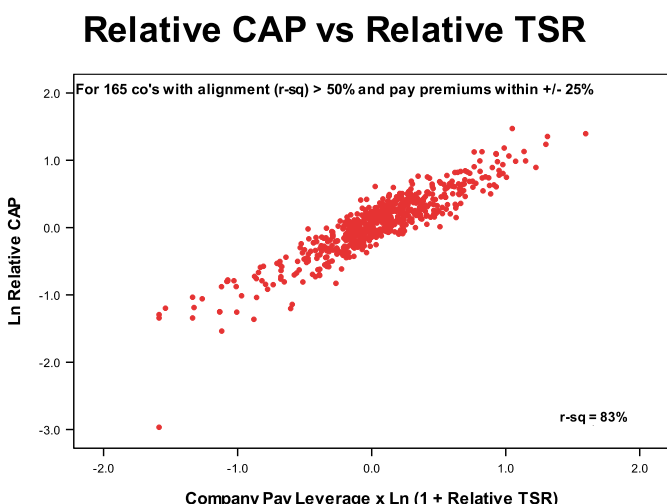
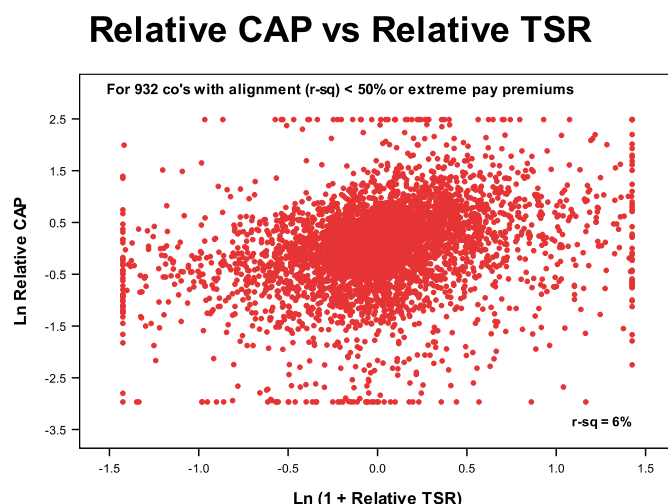


Figure 9



sensitivity of relative pay to relative performance is unimportant.

ISS uses three quantitative measures for “Pay-for-Performance” evaluation: “Relative Degree of Alignment” or “RDA”, “Multiple of Median” or “MOM”, and “Pay-TSR Alignment” or “PTA”. These measures are used to classify companies as having Low, Medium or High Concern. ISS conducts a qualitative review for companies with Medium and High Concern. The ISS approach to pay for performance evaluation encourages companies to adopt the key elements of the conventional wisdom. ISS’s quantitative measures encourage companies to target pay at the 50th percentile and its qualitative review encourages companies to increase their percent of pay at risk.

RDA is the difference between the CEO’s performance percentile and CEO’s pay percentile, measured using three year average pay and TSR. A difference of -50 triggers “Medium Concern” and a difference of -60 triggers “High Concern”. The large negative difference needed to trigger Medium Concern shows ISS’s support for competitive pay policy for poorly performing companies. ISS will not object if a company with 1st percentile performance pays at the 50th percentile.

Multiple of Median (MOM) is the ratio of the CEO’s pay to the median CEO pay of the company’s size adjusted industry peer group without any adjustment for the performance difference between the company and the peer group. If the Multiple of Median is more than 200% for S&P 500 companies, ISS triggers Medium Concern. If the Multiple of Median is more than 300%, ISS triggers High Concern. This measure shows ISS’s support for competitive pay policy for highly performing companies. Superior performance does not justify a pay premium greater than 100%.

A key consideration in the qualitative review is the “strength of performance-based compensation and rigor of performance goals.” The ISS review of Microsoft CEO pay in 2019 provides a good example of the ISS two step review process. Satya Nadella’s grant date pay of \$39 million resulted in a 2.05 Multiple of Median which, in turn, triggered a qualitative review. ISS recommended a “no” vote for Say-on-Pay because Microsoft had increased Nadella’s salary from \$1.5 million to \$2.5 million (an increase representing less than 3% of Nadella’s total

pay). ISS noted that “while some year-over-year base pay increases may be reasonable with the backdrop of strong long-term performance, any substantial increases should be strongly performance-based.” While ISS recommended a “no” vote, it failed to calculate the relative pay vs relative TSR trendline for Microsoft. That trendline, calculated using my estimates of mark to market pay based on Microsoft grant data, was $\ln \text{relative pay} = -0.42 + 1.75 \times \ln(1 + \text{relative TSR})$ with an r-squared of 97%. The intercept shows that Microsoft CEO pay was 34% below average at industry average performance while providing high pay leverage (1.75) and very high pay alignment. The ISS “no” vote recommendation is extraordinary evidence that the ISS pay measures are poorly designed and cause it to miss the big picture shown by the relative pay vs relative performance regression trendline.

Pushed by SEC rule changes and proxy advisor guidelines, companies have increasingly embraced median target pay with a high percent of pay at risk

In 2006, new SEC proxy disclosure rules took effect, requiring companies to report the companies in their compensation peer group. In 2011, pursuant to the Dodd-Frank Act of 2010, investors were granted an advisory Say-on-Pay vote. These two changes, combined with ISS support for competitive pay policy and a high percent of pay at risk, have led to a growing embrace of the conventional wisdom that companies should have 50th percentile target pay with a high percent of pay at risk. ISS Say-on-Pay recommendations support the conventional wisdom and research shows that an ISS “no” vote recommendation reduces the supporting vote for Say-on-Pay by 25 percentage points.⁽¹⁾

Both percent of pay at risk and use of 50th percentile target pay have been increasing. The average percent of S&P 1500 CEO pay at risk has risen from 74% in 2006 to 85% in 2023 and the average percent of pay in equity has risen from 46% to 63%. CEO pay levels have gotten closer, over time, to the median pay of the company’s size adjusted industry group. ISS uses the median pay of a 12-24 company peer group, selected based on size and industry, as its proxy for market pay.

A 2024 study by Jochem, Ormazabal & Rajamani found that the average deviation of CEO pay from the median of the company’s size adjusted industry

group had fallen by 45% since 2007.⁽²⁾ This is one sign of a growing embrace of competitive pay policy, that is, a belief that companies should set target pay at the 50th percentile of peer group pay without any adjustment for performance. A growing embrace of competitive pay policy should lead to stronger evidence of a performance penalty in equity grants. This is confirmed by a 2024 study by Ferrari, Jain, O'Byrne, Rajgopal and Reggiani.⁽³⁾ This study compares equity grants in one year to equity grants in the prior year and analyzes the change in grant shares as a function of the stock price change. If a company perfectly adhered to competitive pay policy, the change in grant shares would fully offset the price change and log share change (i.e., $\ln(\text{shares}_t/\text{shares}_0)$) would be $-1 \times$ the log price change. The authors found that the grant share response to the price change has gotten markedly closer to pure competitive pay policy over the last 25 years. The negative coefficient on log price change has increased (i.e., become more negative) from -0.30 in 1995 to -0.74 in 2021.

Reflecting the growing embrace of the conventional wisdom, compensation consultants and proxy advisors mistakenly believe U.S. executive pay is well designed

The substantial increase in the percent of pay at risk and in equity and the increasing commitment to competitive pay policy have led to a widespread belief that current CEO pay is well-designed and effective. A leading compensation consulting firm, Pay Governance, said in 2018 that “corporate governance in general and of executive compensation has improved dramatically over the past 20 years.”⁽⁴⁾ ISS, in its 2024 proxy review, noted that failed say-on-pay resolutions had fallen to a record low ($<1\%$ for the S&P 500) and added that “many compensation committees appear to be doing a better job at addressing investor concerns” following a low say-on-pay vote.⁽⁵⁾

The new disclosures of Pay Versus Performance could have a significant effect on U.S. executive pay practice because they clearly show that the widely embraced conventional wisdom is not effective for most companies. Additional strong evidence of the shortcomings of the conventional wisdom comes from my 2012 discovery that there is a simple pay plan with annual grants of performance shares that provides a perfect correlation of relative pay and relative performance.⁽⁶⁾ This Perfect Correlation Pay

Plan shows that a perfect correlation of relative pay and relative performance requires three major changes in conventional pay plan design.

There is a perfect correlation pay plan and it departs from conventional plan design in three major ways

The Perfect Correlation Pay Plan has three basic features. Figure 10 shows the first feature and Figure 11 shows the second. The first basic feature is that target compensation is market compensation adjusted for trailing relative performance, i.e., target compensation equals market compensation $\times (1 + \text{relative TSR})$, not market pay without any adjustment. Figure 10 shows this change gives both scenarios the same number of grant shares each year. In the Good Early Performance scenario, market compensation for year 3 is \$1,000, but target compensation is \$2,458 ($= \$1,000 \times (22.52/9.16)$), and the number of shares granted is 109.2 ($= \$2,458/22.52$). The relative performance adjustment is the ratio of the stock price, \$22.52, to the stock price assuming industry performance from the beginning of year 1, \$9.16. In the Bad Early Performance scenario, target compensation for year 3 is \$606 ($= \$1,000 \times (5.55/9.16)$), and the number of shares granted is also 109.2 ($= \$606/5.55$).

Adjusting grant shares for the trailing relative return gives our two scenarios the same number of shares as long as the industry return is the same, but it does not make relative pay equal to relative performance. Figure 10 shows that cumulative pay for both scenarios is \$9,798, or 196% of cumulative market pay even though shareholder wealth is only 104% of industry shareholder wealth. Figure 11 shows that making the vesting multiple equal to $1/(1 + \text{the industry return from the date of grant})$ makes relative pay equal to relative performance. The vesting multiple reduces cumulative pay from 9,798 to 5,209, which makes cumulative pay equal to 104% of cumulative market pay, just as shareholder wealth is 104% of industry shareholder wealth.

A common vesting multiple for performance share plans is $(1 + r\text{TSR})$. It's easy to see that this vesting multiple leverages industry performance instead of taking out industry performance. The stock price can be expressed as beginning stock price $\times (1 + i\text{TSR}) \times (1 + r\text{TSR})$ where $i\text{TSR}$ is the industry return and $r\text{TSR}$ is the relative, or excess, return. The vesting stock value, in conventional plan design, is grant shares \times

Figure 10

	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
Market pay		1,000	1,000	1,000	1,000	1,000
Beginning stock x (1 + industry return)	10.00	10.26	9.16	10.67	14.62	20.07

GOOD EARLY PERFORMANCE

Stock price	10.00	21.12	22.52	33.04	31.53	20.91
Relative return (at beginning of year)		0%	106%	146%	210%	116%
Target pay (= market x (1 + relative return))		1,000	2,057	2,458	3,095	2,157
Grant shares (= target pay / BOY stock price)		100.0	97.4	109.2	93.7	68.4
Cumulative shares		100.0	197.4	306.6	400.3	468.7
Ending wealth						9,798

BAD EARLY PERFORMANCE

Stock price	10.00	7.36	5.55	6.27	9.54	20.91
Relative return (at beginning of year)		0%	-28%	-39%	-41%	-35%
Target pay (= market x (1 + relative return))		1,000	717	606	588	652
Shares (= target pay / stock price)		100.0	97.4	109.2	93.7	68.4
Cumulative shares		100.0	197.4	306.6	400.3	468.7
Ending wealth						9,798

$(1 + r_{TSR}) \times \text{stock price} = \text{grant shares} \times \text{beginning stock price} \times (1 + i_{TSR}) \times (1 + r_{TSR}) = \text{grant shares} \times \text{beginning stock price} \times (1 + i_{TSR}) \times (1 + r_{TSR})^2$. $(1 + i_{TSR})$ remains a component of the vesting stock value and is multiplied, or leveraged, by an additional factor of $(1 + r_{TSR})$.

The third basic feature of the Perfect Correlation Pay Plan is that all cash paid out until retirement is treated as a draw against the ultimate value of the performance shares. This extends the performance measurement horizon to match the CEO's tenure.

The perfect correlation pay plan limits relative pay risk

In the Perfect Correlation Pay Plan, the variation in relative pay exactly matches the variation in relative performance. This means that relative pay risk is always 1.0. In our analysis of 1,097 companies, we found that 61% have relative pay risk greater than 1.0, and 46% of these companies have pay leverage less than 1.0. These CEOs bear more risk but have a weaker incentive than they would with the Perfect Correlation Pay Plan. No investor (or CEO) would want that.

The perfect correlation pay plan shows how to reconcile the two traditions in executive pay history

At the start of this e-book, I showed that executive pay has shifted from fixed sharing concepts to competitive pay concepts over the last 75 years, and I highlighted that each approach has challenging problems. The fixed sharing plans make it difficult to retain key talent, while the competitive pay plans make it hard to create strong incentives. The Perfect Correlation Pay Plan shows us how we can combine fixed sharing with competitive pay concepts to provide strong incentives while limiting retention risk. Cumulative pay under the Perfect Correlation Pay Plan is equal to the cumulative future value of market pay plus a fixed share of the cumulative dollar excess return. The fixed share depends on cumulative industry performance, but it is not affected by company's relative return, so there is no performance penalty.

The Perfect Correlation Pay Plan makes cumulative earned mark to market pay equal to the cumulative FV of market pay x $(1 + r_{TSR})$. The future value (FV) adjustment recognizes that market pay is a present

Figure 11

	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
Market pay		1,000	1,000	1,000	1,000	1,000
Beginning stock x (1 + industry return)	10.00	10.26	9.16	10.67	14.62	20.07

GOOD EARLY PERFORMANCE

Stock price	10.00	21.12	22.52	33.04	31.53	20.91
Relative return (beginning of year)		0%	106%	146%	210%	116%
Target pay (= market x (1 + relative return))		1,000	2,057	2,458	3,095	2,157
Grant shares (= target pay / BOY stock price)		100.0	97.4	109.2	93.7	68.4
Industry return from grant to end of year 5		101%	96%	119%	88%	37%
Year 5 vesting multiple (= 1 / (1 + industry return))		0.50	0.51	0.46	0.53	0.73
Vesting grant shares		49.8	49.8	49.8	49.8	49.8
Cumulative vesting shares		49.8	99.7	149.5	199.3	249.2
Ending wealth						5,209

BAD EARLY PERFORMANCE

Stock price	10.00	7.36	5.55	6.27	9.54	20.91
Relative return (beginning of year)		0%	-28%	-39%	-41%	-35%
Target pay (= market x (1 + relative return))		1,000	717	606	588	652
Grant shares (= target pay / BOY stock price)		100	97	109	94	68
Industry return from grant to end of year 5		101%	96%	119%	88%	37%
Year 5 vesting multiple (= 1 / (1 + industry return))		0.50	0.51	0.46	0.53	0.73
Vesting grant shares		49.8	49.8	49.8	49.8	49.8
Cumulative vesting shares		49.8	99.7	149.5	199.3	249.2
Ending wealth						5,209

value while mark to market pay is a future value; to correct the timing mis-match, we need to adjust market pay for the expected accretion in equity compensation. We use an annual accretion factor of 5% in our estimates of pay dimensions for the 1,097 companies with PvP disclosures. We use 5% because the ratio of cumulative mark to market pay to cumulative grant date pay increases by 4.8% a year, on average. In Figures 1, 10 and 11, we made the simplifying assumption that the accretion factor was 0%.

Since cumulative earned mark to market pay is equal to the cumulative FV of market pay x (1 + rTSR), pay above market, or excess earned pay, is equal to the cumulative FV of market pay x rTSR. Since shareholders' dollar excess return is equal to the difference between actual market equity and market equity assuming the industry return [i.e., market equity₀ x (1 + iTSR) x (1 + rTSR) – market equity₀ x (1 + iTSR), or market equity₀ x (1 + iTSR) x rTSR], the

excess pay share of shareholders' dollar excess return is the cumulative FV of market pay divided by market equity₀ x (1 + iTSR). We calibrate the FV factor to be equal to (1 + expected iTSR), so when the actual industry return is equal to the expected industry return, the CEO share of the excess return is just [years x market pay₀/market equity₀]. In other words, the base annual share is [market pay₀/market equity₀] and the cumulative share increases by this amount each year.

Only a small percentage of companies are able to get the conventional wisdom to work

Our analysis so far has shown that companies can use the Perfect Correlation Pay Plan design to achieve perfect alignment with a zero pay premium at industry average performance. We have also seen, from the new PvP disclosures, that about 15% of companies have been able to achieve alignment (r-sq) of 50% or more with a pay premium at industry

average performance of no more than +/-25%. It's possible that these "good" companies have adopted the Perfect Correlation Pay Plan concepts, but, in fact, it appears that these companies are working within the conventional wisdom but, surprisingly, getting good results.

The Perfect Correlation Pay Plan makes target pay perfectly correlated with trailing relative performance. But the "good" companies are not doing this. Their average correlation of relative grant date pay and relative performance is only .20, an insignificant difference from the average correlation of the "bad" companies, 0.18. The "good" companies do a much better job of structuring their equity compensation to make the post-grant date value changes more correlated with relative performance. The average correlation between relative performance and the difference between relative mark to market pay and relative grant date is 0.53 for the "good" companies but only 0.20 for the "bad" companies.

The "good" companies do a much better of not paying for industry performance. When we measure the average sensitivity of pay to relative TSR and industry TSR for the "good" companies, we find the "good" companies pay 7x more for relative TSR than for industry TSR, while the "bad" companies pay 26% less for relative TSR than for industry TSR. We know that the "good" companies are not taking out industry performance by following the Perfect Correlation Pay Plan and using $1/(1 + \text{the industry return})$ as their vesting measure. It's possible that they are just lucky in the sense that they may pay for gross TSR but appear to pay little for industry performance because their gross TSR is, at least for now, poorly correlated with industry TSR. Industry explains only 14% of the variation in gross TSR for the "good" companies but 31% for the "bad" companies.

Some companies have resisted the conventional wisdom by front loading many years of pay

While the conventional wisdom is widely accepted, there is evidence that some companies are dissatisfied with it. These companies have made very large equity grants to their CEOs that make the CEO's total compensation far greater than median annual pay. These companies often say that they are making a grant that front-loads 5 or 10 years of

annual equity compensation. Unfortunately, these companies have failed to articulate a better measure of incentive strength to help companies think in a more meaningful way about incentive strength and to demonstrate that the conventional wisdom leads to weak leverage and alignment.

Let's look at four examples. In 2011, Apple granted CEO Tim Cook restricted stock with a grant date value of \$376 million. In 2018, Tesla granted CEO Elon Musk stock options with a grant date value of \$2.3 billion. In 2019, Alphabet granted CEO Sundar Pichai restricted and performance stock with a grant date value of \$276 million. In 2020, Palantir Technologies granted stock and options to CEO Alexander Karp with a grant date value of \$1.1 billion. In all four cases, the total compensation far exceeded the ISS "High Concern" standard for CEO pay as a multiple of median pay.

The Apple board said, in its 2012 proxy, that the "determination of the amount of the RSU award was subjective. There was no formula or peer group 'benchmark' used in determining the award amount. Rather, the award was the product of the Board's business judgment..." The Tesla board said, in its 2019 proxy, "the basic premise is simple – Elon's compensation will be 100% aligned with the interests of our stockholders....Elon's only compensation will be a 100% at-risk performance award, which ensures that he will be compensated only if Tesla and all of our stockholders do extraordinarily well." But the board failed to offer a quantitative measure of alignment that would support its conclusion that the award made alignment perfect.

The Alphabet board said, in its 2020 proxy, that "we grant equity awards...to reinforce management's focus on long-term shareholder value and commitment to the company." The Palantir Technologies CEO Karp received 73% of his special grant in options with an exercise price 50% greater than the grant date stock price. The board said, in its 2021 proxy, that the exercise price premium "created direct alignment between the realizable value of the Executive Options and the delivery of value to our stockholders without incentivizing excessive risk-taking." But it failed to offer quantitative measures of alignment or risk that would support its conclusions.

The Musk grant is particularly interesting because it triggered a shareholder suit and led to a judge's opinion that Musk's 22% stock ownership provided

“every incentive” to advance the value of Tesla and eliminated the need for formal incentive compensation. At the time of the new grant in January 2018, Musk held 37.9 million Tesla shares worth \$13.2 billion. The new grant was an option in 12 tranches with vesting conditions based on stock price, revenue and EDITDA. For all 12 tranches to vest, the market value of Tesla needed to rise from \$59 billion to \$650 billion. If all 12 tranches vested, the options would increase Musk’s wealth by 49%, from \$142.2 billion to \$211.3 billion, and Musk’s percentage interest would increase from 22% to 28%.

Judge Catherine McCormick said that “At a high level, the ‘6% for \$600 billion’ argument has a lot of appeal. But that appeal quickly fades when one remembers that Musk owned 21.9% of Tesla when the board approved his compensation plan. This ownership stake gave him every incentive to push Tesla to levels of transformative growth – Musk stood to gain over \$10 billion for every \$50 billion in market capitalization increase.” ⁽⁷⁾

The option grant, at full vesting, increased Musk’s gain per \$50 billion of new market capitalization from \$10.9 billion to \$16.8 billion, but the Judge never cited the higher figure, never assessed the effect of the increase on Musk’s performance (or retention) and never assessed whether the performance effect was cost-efficient for the shareholders. The Judge, like Tesla itself, failed to provide a meaningful measure of incentive strength, and hence, failed to provide support for her conclusion that the shareholders got zero incremental incentive for an expected cost of \$2.3 billion.

Companies and investors should use wealth leverage as well as pay leverage

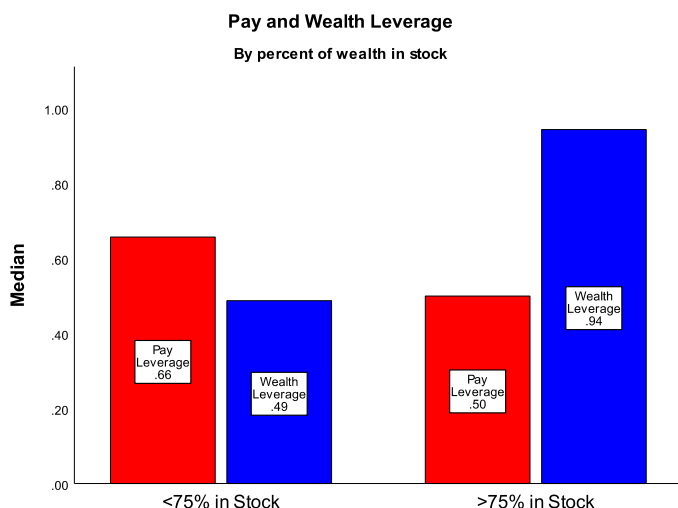
The Musk case highlights the need for a measure of incentive strength that takes account of stock ownership, unlike pay leverage. A useful broader measure of incentive strength is “wealth leverage”. Wealth leverage is the ratio of the log change in executive wealth to the log change in relative shareholder wealth. Executive wealth is the present value of the expected future cash flows to the executive, just as shareholder wealth is the present value of expected future dividends to the shareholder. Executive wealth consists of initial stock and option holdings, the present value of expected future pay during the four (soon to be five) years we use to measure pay leverage and the present value

of expected future pay beyond four (soon to be five) years. Executive wealth includes stock holdings unrelated to the executive’s operating company, but we generally ignore that component of executive wealth in measuring wealth leverage.

We can’t estimate wealth leverage directly using a regression as we do for pay leverage. We don’t have annual wealth returns because we don’t have readily accessible annual estimates of the present value of expected future pay beyond the four (soon to be five) year period we use to measure pay leverage. Instead of using a regression, as we do for pay leverage, we estimate wealth leverage as the weighted average of holdings leverage, pay leverage and the pay leverage of expected future pay beyond four (soon to be five) years. The leverage of stock owned is 1.0 since a 1% increase in relative shareholder wealth generates a 1% increase in stock owned. We use each company’s actual pay leverage for the second component of our wealth leverage calculation. The median pay leverage is 0.65 although 33% of companies have pay leverage greater than their stock leverage of 1.0. We estimate the pay leverage of expected future pay beyond four (soon to be five) years by measuring the sensitivity of grant date pay to prior period performance (as a proxy for the sensitivity of future pay to current performance). For simplicity, we measure future pay leverage using all industries. Estimates based on single industries or individual companies are noisy and less reliable. Average grant date pay leverage to prior relative TSR is 0.25 for a one-year lag, 0.15 for a two-year lag and 0.10 for a three-year lag. We assume that grant date pay leverage is 0.05 for a four year lag and 0 for lags of five years and more. The median pay leverage of expected future pay beyond four (soon to be five) years is 0.09.

We weight the three wealth component leverages by each component’s percentage of beginning wealth. The mean percentages of wealth are 31% for initial stock holdings, 32% for the present value of expected market pay over the four (soon to be five) year pay leverage measurement horizon and 37% for the present value of expected future market pay beyond four (soon to be five) years. To estimate the present value of expected future pay beyond four (soon to be five) years we use market pay and an executive’s age. At the start of our pay leverage measurement, the median executive is age 54 and has 11 years to retirement. We assume zero future years of pay if the executive will be 65 or older at the

Figure 12

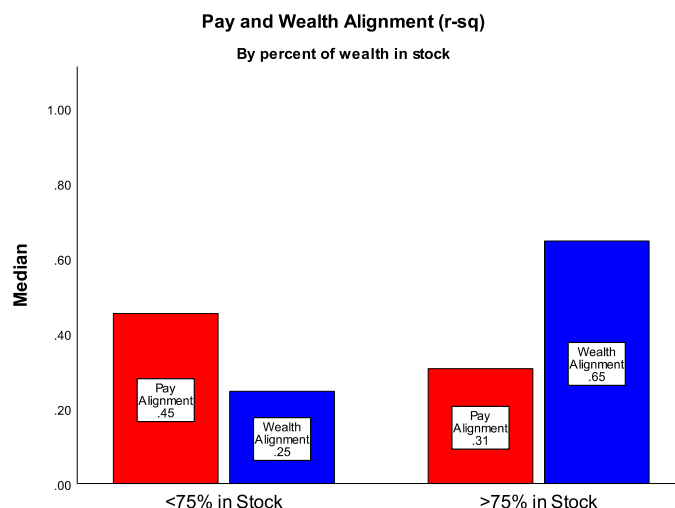


end of our four (soon to be five) year measurement horizon for pay leverage and we use future years to 65 if the executive will be 64 or younger at the end of our four (soon to be five) year measurement horizon. We calculate present values using the company's cost of equity as the discount rate.

When we use our mean percentages of wealth to weight our median wealth and pay leverages, we get wealth leverage of 0.55 ($= 31\% \times 1.0 + 32\% \times 0.65 + 37\% \times 0.09$), which is the same as our median wealth leverage. Median wealth leverage is lower than median pay leverage, 0.65, because the low leverage of future pay beyond four (soon to be five) years, 0.09 at the median, more than offsets the high leverage of stock holdings. About 12% of CEOs have 75%+ of their wealth in stock. For these CEOs, median wealth leverage, 0.94, is significantly greater than median pay leverage, 0.50, as Figure 12 shows.

We also need an indirect way to estimate wealth alignment because we don't have the data to calculate the correlation of wealth return and relative TSR. We calculate the correlation of wealth return with relative shareholder wealth by using the correlations and standard deviations of the three wealth components: stock holdings, four (soon to be five) years of pay and the present value of expected future pay beyond four (soon to be five) years. We need the correlation of each component with relative shareholder wealth as well as correlations of each component with the other wealth components.

Figure 13



As we do in our estimates of wealth leverage, we use all industry data to estimate the correlations of expected future pay beyond four (soon to be five) years with relative TSR, stock holdings return and four-year relative pay. We use the correlations of relative grant date pay with trailing relative TSR, trailing TSR and prior relative mark to market pay to estimate these correlations. Our estimates are correlations of 0.15 with trailing relative TSR, 0.15 with trailing TSR and 0.60 with prior relative mark to market pay.

Figures 12 and 13 show that CEOs with large stock holdings, that is, where stock accounts for 75% or more of their total wealth, have significantly higher wealth leverage than pay leverage and significantly higher wealth alignment than pay alignment. This shows that there is a group of companies where investors should pay more attention to wealth leverage and alignment than to pay leverage and alignment.

Conclusion: How U.S. executive pay should change

The most important change needed in U.S. executive pay today is better measures of key pay dimensions. Percent of pay at risk is a poor measure of incentive strength and needs to be replaced by pay leverage and wealth leverage. Target pay percentile is a poor measure of compensation cost and needs to be replaced by the pay premium at industry average



performance. The new Pay versus Performance disclosures make it practical for companies, compensation consultants, proxy advisors and institutional investors to calculate better measures of incentive strength, alignment, performance adjusted cost and relative pay risk and to use them for benchmarking, pay plan design, say-on-pay voting and stock selection.

Investors will want to use pay leverage, pay alignment and the pay premium at peer group average performance to guide their Say-on-Pay voting. The criteria we used to identify “good” companies above, i.e., relative performance explains 50%+ of the variation in relative pay and the pay premium at peer group average performance is moderate (within +/-25%), is a reasonable and objective basis for Say-on-Pay voting. A great virtue of using an objective criterion like this is that it provides a tool companies can use to improve pay design. Investors who have a strong view of optimal pay leverage can substitute a Say-on-Pay standard using leverage and cost, e.g., pay leverage of 0.75+ and a moderate pay premium at peer group average performance.

For stock selection and sizing, investors should use wealth leverage and alignment, together with performance-adjusted cost, because these incentive measures provide a more comprehensive view of CEO incentives than pay leverage and pay alignment. Institutional investors, proxy advisors and compensation consultants would all benefit by encouraging more academic research on the impact of wealth and pay dimensions on future stock returns.

Better measures of pay dimensions should, in time, lead to better pay design. Companies will surely try to achieve the key objectives – high alignment and moderate pay premiums at industry average performance – while maintaining a target pay percentile regardless of past performance and using vesting to leverage operating performance measures. They will likely find that it is difficult to achieve the key objectives without drawing on the insights that come from the Perfect Correlation Pay Plan: target pay should be market pay adjusted for trailing relative performance, and vesting should take out the industry component of the stock return, not leverage that component.

Footnotes

1. Nadya Malenko and Yao Shen, “The Role of Proxy-Advisory Firms: Evidence from a Regression-Discontinuity Design”, *Review of Financial Studies* (2016).
2. Torsten Jochem, Gaizka Ormazabal, and Anjana Rajamani, “Why Have CEO Pay Levels Become Less Diverse?”, available at ssrn.com/abstract=3716765.
3. Mascia Ferrari, Kalash Jain, Stephen F. O’Byrne, Shivaram Rajgopal and Francesco Raggiani, “Competitive Pay Policies in CEO Compensation”, available at ssrn.com/abstract=4407139.
4. Pay Governance, “CEO Pay As Governed by Compensation Committees: The Model Works!”, April 12, 2018, available at paygovernance.com.
5. ISS Governance, “Board Elections and Executive Compensation in the 2024 U.S. Proxy Season”, July 31, 2024, available at issgovernance.com.
6. Stephen F. O’Byrne, “Achieving Pay for Performance”, *Conference Board Director Notes*, Vol 4, No 24, December 2012.
7. *Tornetta v. Musk*, CA No 2018-0408, p. 6.

The shift toward sustainable executive compensation

Josh Black, Editor in Chief at Diligent Market Intelligence, examines the shift toward sustainable executive compensation

The debate over competitive executive pay has long been contentious, as companies and investors face the challenge of rewarding senior leadership while ensuring alignment with the long-term health of the organisation and stakeholder expectations.

Boards want compensation packages that reflect market standards, attract the best leadership, and enable companies to grow, innovate, and remain competitive. But they have to make choices about which peer groups to use, how to balance long- and short-term incentives, keep talent happy and align their rewards to strategic goals.

[Recent data](#) underscores the evolving dynamics of executive compensation. In 2023, the median granted pay for FTSE 100 CEOs reached £5 million, marking a 6% increase from the previous year, while median realised pay rose by 4% to £3.9 million. However, the picture is different for other executives. Median realised pay for non-CEO executives in the FTSE 100 saw a staggering [67% decline](#) from 2022 to 2023, highlighting disparities within executive ranks and raising questions about the broader implications for leadership incentives.

Balancing short-term and long-term incentives

In theory, compensation should correspond to the complexity of the role and the responsibilities carried by top executives. Problems arise, however, when pay is overly tied to short-term financial metrics, such as stock price or quarterly earnings. These metrics create incentives that favour immediate results over the organisation's long-term health. For instance, stock-based compensation linked solely to short-term share price movements can encourage executives to focus

on market fluctuations rather than investing in areas like innovation, talent development, or sustainability – critical drivers of long-term success.

In the UK, we've seen a trend of companies adopting hybrid pay structures that combine performance-based and time-vesting components, balancing short-term outcomes with incentives for sustained performance. This approach aligns with the rising investor support for "say on pay" proposals, which climbed to 94.7% at FTSE 100 and FTSE 250 companies in the first nine months of 2023.

The increase in investor backing reflects a clear demand for compensation frameworks prioritising long-term value creation. Investors are increasingly vocal about the need to align executive compensation with a company's broader strategic objectives, such as environmental sustainability, corporate governance, and market resilience. There is growing recognition that sustainable pay structures benefit both companies and investors. As a result, boards are under mounting pressure to design pay packages that reflect not just immediate financial performance, but the company's long-term health and growth potential.

Competitive pay packages are typically benchmarked against peer organisations, a practice designed to reflect prevailing market conditions. However, boards should consider privately reviewing pay against multiple peer groups using a global mix of companies to avoid relying too heavily on a United States-centric approach that inflates pay levels without accounting for local factors such as domestic shareholders and the employee experience. To address this, boards can leverage a variety of tailored data that captures the nuances of their sector and business environment.

Shaping the future of sustainable executive compensation

Academic research and industry insights have become invaluable in shaping effective executive compensation strategies. While academic studies

offer broad frameworks for understanding pay structures, industry insights delivered through market intelligence platforms provide more updated and actionable data on compensation, corporate governance, shareholder activism and ESG trends within particular sectors and geographies, and can be combined with benchmarking tools and proxy advisor insights for more powerful analysis.

These insights can also be delivered directly to boards in a format they're familiar with. Timely, tailored data can help boards and leadership design compensation packages that attract top talent while reflecting the unique demands of executive roles and aligning with long-term company goals.

Looking to the future, executive pay will likely hinge on striking the right balance between rewarding leadership excellence and promoting long-term growth. While competitive pay remains a central tenet of executive compensation, there is an increasing recognition that pay packages must be forward-looking and nuanced.

Transparent, well-structured compensation plans that align with shareholder interests and the organisation's long-term health can help mitigate risks, build trust, and drive sustainable performance. As investor pressure intensifies and calls for responsible governance grow louder, boards must rethink how they structure compensation to ensure that executive incentives align not just with short-term financial targets, but with the company's broader, more enduring goals.

As stewardship demands evolve, companies adopting a balanced, well-reasoned approach to executive pay will be better positioned to attract leadership that values growth and ethical performance, laying a foundation for long-term success.

Joshua Black
Editor in Chief
Diligent
Tel: +44 (0)20 7605 7400

WEBSITE **EMAIL**



EU FINANCIAL POLICY SNAPSHOTS

The Directorate-General for Financial Stability, Financial Services, and Capital Markets Union is responsible for European Union (EU) policies related to financial services. Key leaders in this area at the European Commission include John Berrigan, the Director-General, and Mairead McGuinness, who served as the European Commissioner for Financial Services, Financial Stability, and Capital Markets Union from 2020 to 2024.⁽¹⁾

One of the key responsibilities of such senior figures at the Commission includes improving and preserving financial stability, protecting investors and savers, and ensuring that capital flows where it is most needed. They also lead efforts to complete the Banking Union, which involves finalising the common backstop for the Single Resolution Fund and reaching agreements on a European Deposit Insurance Scheme.⁽²⁾

In a speech, Commissioner McGuinness (2020-2024) highlighted the Sustainable Finance Disclosure Regulation concerning transparency for investors regarding sustainable investment products.⁽³⁾ In 2018, the EU introduced its first Action Plan on sustainable finance, establishing a framework for sustainable finance initiatives. "And here the idea was to enable investors to know more about sustainable investments, supporting transparency by both companies and investors, and developing practical tools for the financial system," Commissioner McGuinness (2020-2024) said.⁽⁴⁾

In October 2020, the G20 focused on improving cross-border or international payments, aiming to make them cheaper, faster, more transparent and accessible for all. The Commission collaborates closely with international partners to enhance worldwide money transfers. In their June 2023 proposal on payments, they included several measures to address this issue. For example, on transparency, currency conversion charges should be shown to users "in the same way as transfers within the EU".⁽⁵⁾

References

- https://commission.europa.eu/about-european-commission/departments-and-executive-agencies/financial-stability-financial-services-and-capital-markets-union_en
- https://commissioners.ec.europa.eu/mairead-mcguinness_en
- https://ec.europa.eu/commission/presscorner/detail/en/speech_24_2987
- https://ec.europa.eu/commission/presscorner/detail/en/speech_24_2092
- https://ec.europa.eu/commission/presscorner/detail/en/speech_23_5782



CONTACT

Shareholder Value Advisors, Inc.
21 Bonnie Way,
Larchmont, NY 10538

Main Phone Number: (914)-833-5891

General Inquiries: info@valueadvisors.com

Website: <https://valueadvisors.com/>