Wall Street and Main Street: What Contributes to the Rise in the Highest Incomes?

by

Steven N. Kaplan* and Joshua Rauh*

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Abstract

We consider how much of the top end of the income distribution can be attributed to four sectors – top executives of non-financial firms (Main Street); financial service sector employees from investment banks, hedge funds, private equity funds, and mutual funds (Wall Street); corporate lawyers; and professional athletes and celebrities. Non-financial public company CEOs and top executives do not represent more than 8% of any of the top AGI brackets (the top 0.1%, 0.01%, 0.001%, and 0.0001%). Individuals in the Wall Street category comprise at least as high a percentage of the top AGI brackets as non-financial executives of public companies. While the representation of top executives in the top AGI brackets has increased from 1994 to 2004, the representation of Wall Street has likely increased even more. While the groups we study represent a substantial portion of the top income groups, they miss a large number of high-earning individuals. We conclude by considering how our results inform different explanations for the increased skewness at the top end of the distribution. We argue the evidence is most consistent with theories of superstars, skill biased technological change, greater scale and their interaction.

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I. Introduction

It is well known that the income distribution in the United States has become increasing unequal over the last two or three decades.¹ The sources of this increased inequality, however, are not completely understood, particularly at the very top end of the distribution. In this paper, we consider in detail how much of the inequality today at the top end of the income distribution can be attributed to four different sectors of the economy – top executives of non-financial firms (Main Street); financial service sector employees from investment banks, hedge funds, private equity funds, and mutual funds (Wall Street); lawyers; and professional athletes and celebrities.

Where possible, we estimate how those contributions have varied over time. It is well-known and well-documented that top executive pay has increased substantially over the last twenty-five years (Hall and Liebman (1998), Hall and Murphy (2003), Jensen et al (2004), Bebchuk and Fried (2004 and 2006)). Those increases have generated a great deal of controversy and attention. At the same time, the financial and legal sectors also have experienced substantial growth over the last twenty-five years both in number of employees and the pay of those employees. As a result, those sectors also include many high income individuals. Unlike data on the top executives of public companies, however, compensation on investment bankers, hedge fund employees, private equity partners, and law firm partners are not disclosed systematically.

We begin with the data in ExecuComp on realized compensation for top executives of public companies. We extrapolate the data on those companies to also include non-ExecuComp companies. We estimate the contribution of all top executives from non-financial and financial firms to the top ends of the W-2 distributions (of ordinary income paid by the employer from the Social Security Administration) and the AGI distributions (of adjusted gross income from the IRS) both recently and for 1994.

We find that top executives of non-financial firms already made up a large fraction of the top W-2 brackets in 1994. For example, they comprise roughly 20% of the top 0.01% of the distribution or those

¹ See Autor, Katz and Kearney (2005) and (2006), Dew-Becker and Gordon (2005), Piketty and Saez (2003), (2006a), and (2006b).

with W-2 incomes over \$1.3 million in 1994. This share rose only slightly between 1994 and 2004 despite the large increase in top executive pay, as the threshold for the top 0.01% also rose substantially to approximately \$2.5 million.

At the same time, we find that the share of executives in the AGI distribution is much smaller, but the increase in realized compensation is somewhat larger at the very top relative to 1994. The AGI threshold for the top 0.1% rose from \$0.7 million to \$1.4 million, with top executives comprising 4.8% of that bracket in 2004 compared to 4.2% in 1994, a small increase. At the top 0.01% bracket, the increase is larger. The AGI threshold for the top 0.01% rose from \$3.1 million to \$7.2 million, with top executives comprising 6.9% in 2004 versus 4.2% in 1994. When we use ex ante (rather than realized) compensation, however, we find that top executives comprise a slightly smaller faction of the top 0.1% and 0.01% in 2004 than in 1994. Overall, the increase in top executive pay appears to explain only a modest fraction of the increase in the top ends of both the W-2 and AGI distributions.

We then use the financial statements of publicly-traded investment banking firms (e.g., Goldman Sachs and Morgan Stanley), and calibrated assumptions of the distribution of compensation within those firms, to estimate the distribution of most highly compensated people (whom we refer to as managing directors) at those firms. We estimate that the managing directors and top executives of the top investment banking firms comprise roughly the same percentage of those individuals in the top 0.01% as the top executives of non-financial public companies. Furthermore, while the number of employees in top securities firms has roughly doubled in the past 20 years, the amount of capital at these firms has increased by a factor of twenty.

Next, we attempt to estimate incomes for individuals in the money management business. We look at hedge fund, venture capital (VC) fund, private equity or buyout (PE) fund and mutual fund investors. The data here are admittedly very coarse and we make a number of assumptions to obtain estimates of income. We estimate that a large number of professionals in these areas are highly compensated. For example, we estimate that the professionals in hedge funds, VC funds, and PE funds include roughly the same number of individuals in the top 0.5% and 0.1% of the AGI income distribution

as the top non-financial executives. While it is very difficult to estimate precise distributional changes over time for this sector, we also provide evidence that these industries are significantly larger today than 10 and 20 years ago and therefore that their employees must represent a much larger fraction of top quantiles than they did previously.

We also find that hedge fund investors and other "Wall Street" type individuals comprise a larger fraction of the very highest end of the AGI distribution than CEOs and top executives. In 2004, almost nine times as many Wall Street investors earned in excess of \$100 million as public company CEOs.

We then examine lawyers using profit per partner for the top 50, 100, and 200 law firms in the United States. The average profit per partner in 2004 in the top 50 firms is \$1.26 million, representing more than 11,000 partners. This compares to an average profit per partner of \$0.31 million in 1984 representing 4,600 partners. Profits per partner, therefore, have increased by a factor of four while the number of partners has more than doubled. In real terms, profits per partner have increased by 2.5 times. Similarly, we estimate that the fraction of lawyers in the top 0.5% and 0.1% AGI brackets have increased substantially from 1984 and 1994 to 2004. For example, we estimate that partners of the top 100 law firms represent 2.2% of the top 0.1% AGI bracket in 2004, compared to 1.3% in 1994. This is a larger increase in this bracket than that of the top executives.

Finally, we investigate professional athletes in basketball, baseball, and football. As with executives, these athletes represent almost the identical percentage of the top W-2 brackets in 2004 as they did 10 years previously. Also as with the other groups we study, these athletes' share of the top 0.01% AGI bracket is small but has grown substantially from 1.0% to 1.4%.

Overall, we estimate that the groups we study represent at least 16% to 22% of the individuals who comprise the AGI categories at and above the top 0.1%. Among the groups we study, non-financial public company CEOs and top executives are estimated relatively precisely and do not represent more than 8% of any of the top AGI brackets. In every top AGI bracket, our estimates suggest that Wall Street-related individuals comprise at least as high a percentage of the top AGI brackets as non-financial executives of public companies.

At the same time, the representation of the groups that we study in the top categories has increased from 1994 to 2004. Top executives of non-financial firms comprise 13% more of the top 0.1% of the AGI distribution in 2004 as they did in 1994 and 64% of the top 0.01%. However, the fraction of the top AGI brackets explained by these individuals is quite small (fewer than 7% of individuals in the top 0.01% in 2004). The contribution of lawyers, hedge fund managers, private equity and venture capital professionals also has clearly increased dramatically over the past 10 and 20 years, and likely to a greater extent than top executives.

While our estimates represent a substantial portion of the top income groups, they clearly miss a large number of high-earning individuals. We suspect that some of the missing individuals are non-top five executives of publicly-traded companies, trial lawyers, executives of privately-held companies, and independently wealthy individuals who have a high AGI.

We conclude by considering how our results inform different explanations for the increased skewness at the top end of the distribution. These explanations include trade theories (Hecksher (1931), Olin (1933), Stolper and Samuelson (1941)), increasing returns to generalists rather than specialists (Murphy and Zabojnik (2004), Frydman (2005)), stealing theories (Bebchuk and Fried (2004) and Bebchuk and Grinstein (2005)), social norms (Piketty and Saez (2006a)), greater scale (Gabaix and Landier (2006)), skill biased technological change (Katz and Murphy (1992)), and the economics of superstars (Rosen (1981).

It seems unlikely that trade theories can account for the massive observed increase in inequality at the highest levels of the income distribution, especially given the breadth of this phenomenon and the fact that it does not affect only the groups for which the products and services are heavily and increasingly exported or bid for by tradable sectors. For example, it is difficult for us to understand how trade could have increased the pay of U.S. lawyers, most of whose human capital is country-specific, by a factor of four.

It also seems unlikely that the theory of increasing returns to generalists can be supported by our evidence. We do not believe that lawyers, hedge fund investors, investment bankers, or professional

athletes have become less specialized / more general over time. In fact, the opposite seems more likely to be true.

While we do not test directly whether any group of individuals is stealing or not, we can rule out that the top share is limited to CEOs and top executives who arguably have the greatest influence over their own pay. Our evidence suggests that poor corporate governance or managerial power over shareholders cannot be more than a small part of the picture of increasing income inequality, even at the very upper end of the distribution.

Our evidence also is hard to reconcile with social norms. While top executive pay has increased, so has the pay of other groups, particularly Wall Street, who are and were less subject to disclosure and, arguably, less subject to social norms. In addition, the compensation arrangements at hedge funds, VC funds, and PE funds have not changed much, if at all, in the last twenty-five years.

Given what we think our evidence does not support, we believe that the evidence remains consistent with theories of skill biased technological change, superstars, greater scale and their interaction.

Our analysis is most closely related to the second half of Dew-Becker and Gordon (2005). They consider two possible sources of increasing income inequality – the pay of top executives and the pay of entertainment and sports superstars. Based on average pay statistics, they claim that those two groups account for most of the income earned in the very top quantiles of the income distribution. There are several ways in which our analysis is different from theirs. First, Dew-Becker and Gordon (2005) interpret the mean statistics from Bebchuk and Grinstein (2005) rather than analyze the distribution of pay we do. In doing so, they assume that each executive earns the average amount of pay which clearly ignores the true distribution. Second, they use ex ante compensation and Black-Scholes estimates of it, rather than realized or actual compensation.² Third, they do not consider non-ExecuComp firms. Finally,

 $^{^{2}}$ As we show, using Black-Scholes type compensation measures actually reduce both the contribution of top executives to the top brackets in 2004 and the increase in the top executive share from 1994 to 2004.

they do not measure Wall Street-type professionals at all. In his discussion of Dew-Becker and Gordon (2005), Topel (2005) raises several of these issues.

The paper proceeds as follows. Section II analyzes data from ExecuComp on incomes of top executives in non-financial and financial firms and their contribution to the income distribution. Section III focuses on other employees in the financial services and investment sector. Section IV reports our results on lawyers. Section V reports our results on professional athletes. In section VI, we use the results in the previous sections to see how much of the top end those groups explain. In section VII, we discuss the implications of our results on different theories of increased income inequality.

II. Top Executives (Main Street)

In this section, we consider the contribution of top executives of public companies in the U.S. to the top end of the income distribution. We begin with the top executives in the ExecuComp database. ExecuComp covers the compensation of top executives of most of the companies in the S&P 500, the S&P Midcap 400, and the S&P Smallcap 600, plus some companies that were in those indices in past years and were removed from trading. In this analysis, we focus on the year 2004 because it is the most recent for which complete data are available, and 1994 because it is the first year that ExecuComp has full coverage of the index companies. For the year 1994, ExecuComp covered 1,747 total companies, and for 2004 it covered 1,722 total companies.

ExecuComp reports two summary measures of compensation, TDC1 and TDC2. We use TDC2 as that measure that will be closer to the amount that will be reported as income on an executive's W-2 form and in AGI. TDC2 estimates the value of total compensation realized by the executive that year. This is the sum of salary, bonus, the value of restricted stock granted, the net value of stock options exercised and the value of long-term incentive payouts. TDC2 will reflect any benefit that an executive may have received from backdating options.

TDC1 estimates the value of total compensation awarded (not necessarily realized) to the executive that year. This can be thought of as TDC2 but replacing the net value of stock options

exercised with the estimated value of stock options granted, using a Black-Scholes calculation. TDC1 does not reflect option backdating benefits because it assumes that the stock price on the issue date was the same as the exercise price.

Reported W-2 income may differ from TDC2 because some restricted stock grants are not taxable until they vest. TDC2 assumes that all the restricted stock granted in one year has vested. In any given year, then, an executive's true W-2 income will reflect the restricted stock grants that vested that year which will include some current year as well as past year grants. Reported AGI will differ from TDC2 for the above reason and to the extent that executives earn income from other sources, such as directorships of other companies, or interest, dividend, and capital gains income. Other deferred compensation, such as pension benefits, also will not appear in TDC2 or TDC1 nor would they appear in W-2 income or AGI.³ An additional caveat when looking at AGI comparisons is that AGI is calculated at the level of the tax filing unit, whereas we are considering individuals. In other words, we essentially assume that none of the individuals in our paper are married to each other or to other high earners. While not precisely true, we do not believe this is a large source of bias in our estimates.

We also assume that all of the top executives are U.S. citizens and report all of their income to the U.S. tax authorities. Because some top executives are not U.S. citizens or are taxed elsewhere, our results will overstate the number of executives that actually appear in the relevant tax brackets.

For 1994 and 2004, we report the number of top executives with TDC2 in income brackets from \$500,000 and up. We restrict our sample in a couple of additional ways. First, we remove any duplicated observations for a given individual. Second, we restrict attention to only the top five most highly compensated executives per firm. ExecuComp typically takes as many executives as happen to be in the disclosure statements, which may be more than the legally required 5. The average number of unique executive names per firm-year in Execucomp was 6.7 in 1994 and declined to 5.9 in 2004. As we do not want our results affected by changing coverage, we keep only the largest 5 TDC2 observations for each

³ Sundaram and Yermack (2005) estimate the average change in pension value is 10% of total compensation (TDC1) for Fortune 500 CEOs from 1996 to 2002.

firm-year. Finally, for executives who appear in the top 5 at multiple firms within a given year (perhaps because they started the year at one firm and ended the year at another), we sum the TDC2 they earned at each firm to convert these multiple observations into one observation.

During this period, CEO and top executive compensation increased substantially. Bebchuk and Grinstein (2005) report that top executive and CEO pay for ExecuComp firms roughly doubled in real terms from 1995 to 2003. In our sample, the average nominal realized compensation of the top five executives increased from \$0.94 million in 1994 to \$2.96 million in 2004.

While most ExecuComp companies are non-financial companies, some, like Goldman Sachs, are financial services companies, such as banks and investment banks. Accordingly, we divide the ExecuComp executives into non-financial and financial executives. Financial executives are executives of firms that have an SIC code from 6000 to 6299. We consider firms with SIC codes at 6300 and above to be non-financials; these firms include insurance companies and real estate agents and operators. We classify them as non-financials because they are generally not "Wall Street" type firms. Financial firms comprised 42 of the S&P 500, 30 of the S&P Midcap 400, and 55 of the S&P Smallcap 600 in 1994 and 47 of the S&P 500, 33 of the S&P Midcap 400, and 32 of the S&P Smallcap 600 in 2004.

Table 1a reports the number of non-financial and financial ExecuComp executives in the relevant W-2 brackets. Table 1b reports the analogous numbers for estimated AGI brackets. The comparison with 2004 AGI's is complicated by the fact that we do not have the 2004 distributions for the three very highest brackets – \$10 to \$20 million, \$20 to \$50 million, and above \$50 million. For these brackets, we use the detailed counts for 2001 AGI which Emmanuel Saez provided. The results in Piketty and Saez (2006) suggest that the 2001 counts were similar to those of 2004. Table 1c reports the analogous numbers for the actual 2004 AGI brackets for the top 0.5%, top 0.1% and top 0.01%, which are available from the IRS.

Table 1a indicates that non-financial ExecuComp executives represent roughly the same fraction of the top W-2 brackets in 2004 as they did in 1994. For example, in 1994, non-financial ExecuComp executives were 5.2% of the W-2's above \$0.5 million (top 0.055%), 10.5% of the W-2s above \$1.0

million (top 0.0126%) and 17.5% of the W-2s above \$3.5 million (top 0.00106%). In 2004, non-financial ExecuComp executives were 6.1% of the W-2's above \$1.0 million (top 0.047%), 11.0% of the W-2s above \$2.0 million (top 0.0155%) and 21.4% of the W-2s above \$10 million (top 0.00122%). This suggests that over the same period that top executive W-2 income increased substantially, the W-2 income of other high earning individuals must have increased by roughly the same degree.

Table 1a shows that for most brackets in 1994, there were roughly 15% as many ExecuComp executives of financial firms as executives of non-financial firms. For example, financial executives comprise 1.7% of the W-2s above \$1.0 million (top 0.0126%) compared to 10.5% for non-financial executives. The fraction declines somewhat in 2004. For example, financial executives comprise 1.2% of the W-2s above \$2.0 million (top 0.0155%) compared to 11.0% for non-financial executives.

Overall, the ExecuComp executives – non-financial and financial combined – appear to comprise a total of 20.8% of the W-2's in the top 0.001% of the distribution in 1994 and 25.5% in the top 0.001% in 2004. This indicates that top executives explain a large fraction of the high end, but also that they do not explain much of the increase in the high end.

Table 1b reports the same calculations using the AGI distribution. Table 1b indicates that nonfinancial ExecuComp executives represented a somewhat larger fraction of the top AGI brackets in 2004 than they did in 1994. The increase is small in the top 0.05%, but larger in the brackets above. For example, non-financial ExecuComp executives represented 2.5% of the AGI's above \$1.0 million (top 0.056%) in 1994 and 2.8% of the AGI's above \$2.0 million (top 0.066%) in 2004. They represented 2.5% of those above \$3.0 million (top 0.010%) and 2.5% of those above \$5 million (top 0.005%) in 1994, but 3.7% of the AGI's above \$5.0 million (top 0.019%) and 4.0% of the AGI's above \$10 million (top 0.007%) in 2004.

Table 1c reports similar calculations for the top 0.5%, 0.1% and 0.01% for which all the data are based on the actual AGI brackets. The results are qualitatively similar. ExecuComp non-financial executives comprised 2.11% of the AGI's in the top 0.1% in 1994 versus 2.36% in the top 0.1% in 2004. They comprised 2.48% of the AGI's in the top 0.1% in 1994 versus 4.14% in the top 0.1% in 2004.

For comparison with other studies, Table 1d shows results for ExecuComp CEOs. Surprisingly, the fraction of CEOs in the top 0.1% or above is roughly the same in 2004 as it is in 1994. ExecuComp non-financial CEOs comprise 0.74% of the AGI's in the top 0.1% in 2004 compared to roughly the same percentage, 0.70%, in 1994. At the same time, the fraction of the top 0.01% who are CEOs has almost doubled, going from 1.17% in 1994 to 2.21% in 2004. While their share at the very very top has increased, CEOs remain a very small fraction of those brackets.

Combined with the results for the W-2 brackets, the results for the AGI brackets indicate that the very top AGI brackets in 2004 were more heavily populated with individuals with high W-2 payouts than in 1994.

Tables 1b and 1c show a similar increase in the fraction of financial executives in the top brackets. According to Table 1c, financial executives comprise 0.49% of the AGIs in the top 0.01% in 1994 (above \$3.1 million) compared to 0.71% of the AGIs in the top 0.01% in 2004 (above \$7.2 million). The fraction financial executives comprise of the top 0.1% actually declined from 0.30% to 0.24%.

While the ExecuComp data cover over 1,600 publicly-traded companies, there were a total of 8,060 publicly traded companies in 2004 for which equity market values are available in Compustat. The non-ExecuComp companies are small relative to the ExecuComp companies. Because compensation tends to be lower in smaller companies (see Bebchuk and Grinstein (2005) or Gabaix and Landier (2006)), we use the TDC2 data for the top executives in ExecuComp to estimate compensation in the other companies adjusting for company size.

We do this by beginning with the set of all Compustat firms not in ExecuComp. We keep only those whose equity market value exceeds the minimum for the S&P600 Smallcap index. We then assign each firm to the category it is closest to among the S&P500, S&P400 Midcap, or S&P600 Smallcap index. To do this, we assume that if a firm's equity market value exceeds the maximum equity market value for S&P400 Midcap firms, it is like a S&P500 firm. If a firm's equity market value is above the minimum equity market value for the S&P600 Smallcap firms, but below the minimum equity market value for the S&P600 Smallcap firms, it is like an S&P600 Smallcap firm. The remaining firms have

equity market values above the minimum and below the maximum for S&P400 Midcap firms. However, many of these firms are also below the maximum market value for S&P600 Smallcap firms. We assume that if the firm is above \$1 billion it is like a S&P400 Midcap firm and below \$1 billion, it is like a S&P600 Smallcap firm. We do this procedure separately for financial and non-financial firms.

To get the actual number of executives, we take the distribution of the actual S&P category and scale it by the ratio of actual S&P category firms to the count of the corresponding assigned non-ExecuComp category. So for example, in 2004 there are 528 non-financial firms in the S&P600 Smallcap index while there are 2082 non-ExecuComp non-financial firms imputed to the S&P600 category from our procedure. To get the distribution of executives in non-ExecuComp non-financial firms imputed to the S&P600 Smallcap firms and scale it up by 2082/528. Preliminary analysis indicates that this procedure overstates the number of non-ExecuComp executives in the top brackets.

The right two panels of Table 1a indicate that non-financial executives not in ExecuComp are estimated to comprise an additional 10% to 13% or so of the top end W-2 brackets in both 1994 and 2004. For example, in 1994, non-financial non-ExecuComp executives represent 9.5% of the W-2's above \$1.0 million (top 0.0126%) and 11.8% of the W-2s above \$3.5 million (top 0.001%). In 2004, non-financial non-ExecuComp executives were 10.5% of the W-2s above \$2.0 million (top 0.0155%) and 12.6% of the W-2s above \$10 million (top 0.001%).

When we add the estimated non-financial non-ExeucComp executives, we find that the nonfinancial ExecuComp executives and non-ExecuComp executives together comprise a total of 20.0% and 23.2%, respectively, of the W-2's in the top 0.01% of the distribution in 1994 and 2004. The analogous percentages are 29.3% and 34.0%, respectively, of the W-2's for the top 0.001% of the distribution in 1994 and 2004. Again, this indicates that while top executives explain a large fraction of the high end of the distribution, they explain only part of the increase in the high end over the 1994 to 2004 period.

Tables 1b and 1c indicate that non-financial executives not in ExecuComp comprise an additional 2.43% of the top 0.1% of AGI's in 2004 compared to 2.13% of the top 0.1% in 1994, again representing a

modest increase. Their estimated share of the top 0.01% has increased to 2.75% from 1.73%. When we add the estimated non-financial non-ExecuComp executives to the non-financial ExecuComp executives, we calculate that non-financial top executives comprise 4.79% of the top 0.1% in 2004 compared to 4.24% in 1994; and 6.89% of the top 0.01% in 2004 compared to 4.21% in 1994.

Overall, these analyses show three patterns. First, the non-financial top executives' share of all of the top W-2 brackets is relatively large but has increased only modestly from 1994 to 2004 despite the large increase in top executive pay. Second, the share of those executives in top 0.1% AGI brackets is smaller and also has increased only modestly. Third, it is only at the very top AGI brackets (top 0.01% and above) that the share of top executives has increased, yet those top executives represent only a small fraction (less than 8%) of the individuals in any of those brackets.

It is worth ending with one additional point. The analysis above uses realized compensation (TDC2 reported by ExecuComp) which differs from the ex ante value of compensation awarded that year (TDC1). This potentially leads us to overstate the ex ante relative increase of top executives at the top end of the income distribution. The reason for this is that the average TDC1 in 1994 for the ExecuComp executives in our sample is \$1.09 million and exceeds the average TDC2 of \$0.94 million. At the same time, TDC1 for the executives in 2004 of \$2.55 million is less than the average TDC2 of \$2.96 million. In other words, the increase in average TDC2 from 1994 to 2004 is 215% while the increase in TDC1 is only 134%.

If we had used TDC1 instead, the non-financial ExecuComp executives would have comprised 13.6% of the top 0.01% of the W-2 distribution in 1994 and 13.0% of the top 0.01% in 2004 (versus 10.6% and 12.6% with TDC2). The non-financial ExecuComp executives would have comprised 25.6% of the top 0.001% of the W-2 distribution in 1994 and 14.5% of the top 0.001% in 2004 (versus 17.5% and 21.3% with TDC2). In other words, using TDC1, non-financial ExecuComp executives would have explained at least as much of the top of the W-2 distribution in 1994 as in 2004.

Similarly, table 1e shows that if we had used TDC1 instead, the non-financial ExecuComp executives would have comprised 2.56% of the top 0.1% of the AGI distribution in 1994 and 2.52% of

the top 0.1% in 2004 (versus 2.11% and 2.36% with TDC2). The non-financial ExecuComp executives would have comprised 3.57% of the top 0.01% of the AGI distribution in 1994 and 3.26% of the top 0.01% in 2004 (versus 2.48% and 4.14% with TDC2). In other words, using TDC1, the fraction of the top 0.1% and top 0.01% AGI brackets explained by non-financial ExecuComp executives is less in 2004 than it was in 1994.

III. Wall Street

A. Investment Banking

It is well-known that investment banking and other financial services firms have a large number of highly compensated individuals. Because firms are not required to disclose individual compensation for these individuals, it is not clear how large the amounts are and how many individuals earn them. Investment banks typically report only a very small amount of information about the compensation of their employees, generally limited to a figure for total global employee compensation plus the usual figures for compensation of the top five corporate executives. These disclosures likely obscure the fact that there are many highly paid professionals at the firm who are not among the top five employees. Indeed, the typical managing director at a top Wall Street firm will almost never earn less than \$500,000 a year in total compensation, and there are thousands of these individuals.

In this section, we attempt to estimate the number of highly paid professionals at Wall Street securities firms, as well as their distribution of pay, and examine how this number and distribution compare to the statistics on executives of publicly traded companies. We use publicly available information on total compensation from the top 10 publicly-traded investment banks. Based on discussions with industry insiders, we create a distribution of income for these firms. We then attempt to extrapolate from that information to other firms.

1. Counting the Managing Directors

We use the title managing director to describe the top echelon of securities firm professionals and begin with a detailed study of ten of the top eleven securities firms from the list of the top 100 securities firms by Institutional Investor (2004). Institutional Investor organizes this list by total consolidated capital of the securities unit of the firms in question; the ten we study comprise roughly 90% of the total consolidated capital of the top 100. These firms are listed in Table 2a. We exclude Bank of America Securities from our top 10 because of data availability issues, and instead include number 11, J.P. Morgan Securities.

There are several complications that we attempt to address in this analysis. First, several of the top 10 are divisions of conglomerates that include both investment and commercial banks. We focus on only the securities businesses of these firms, including asset and wealth management but excluding commercial banking. While some firms report disaggregated segment level information on total number of employees, many do not. Where necessary, we use the ratio of segment net revenue to total net revenue to derive an estimate of segment employees. Second, while some securities firms report the number of managing directors, many do not. In these cases we either rely on industry sources that estimate this figure or estimate the number of global managing directors as a fraction of global employees. When we apply ratios, we typically used figures between 3 and 4 percent, calibrating in many cases to information from industry insiders. Third, while some firms report U.S. information separately from global information, in many cases we needed to estimate the number of U.S. employees. Where necessary, we use the ratio of U.S. to global net revenues to estimate this figure. Finally, we generally assume that the ratio of U.S. to global employees is indicative of the ratio of U.S. to global revenues.

Table 2a presents our assessment of the likely number of U.S. managing directors at these ten firms. Non-italicized figures are numbers taken directly from the financial reports of the companies in question or calculated as ratios of figures taken directly from the reports. Italicized figures represent our imputations, in which we have attempted to be as conservative as possible.

We use relatively straightforward calculations to estimate the managing directors at Goldman Sachs Group and Bear Stearns Companies. The 2004 Goldman Sachs annual report lists the number of

managing directors at 1,181. The annual report also lists 20,722 global employees with 13,278 based in the U.S. for a ratio of 64%. We apply this ratio to the number of managing directors to derive an estimate of 757 managing directors based in the U.S. For Bear Stearns, although the company does not list its managing directors, industry insiders revealed approximately 850 global managing directors. Furthermore, while this firm does not detail the U.S. versus non-U.S. employee breakdown, 91% of Bear Stearns revenues originate in the U.S. We therefore estimate that Bear Stearns had 770 (91% of 850) managing directors based in the U.S. in 2004. Both Goldman Sachs and Bear Stearns are essentially pure investment banks, so there are no complications involved with deriving segment-level estimates.

Lehman Brothers also provides a relatively straightforward case. The annual report lists 19,600 global employees with 14,100 based in the U.S. Unfortunately, we do not know the number of managing directors at this firm. We assume a conservative 4% (compared to the implied figures of 6% for Goldman Sachs and 8% for Bear Stearns), calibrated from conversations with industry insiders. This leads to a figure of 564 managing directors based in the U.S. in 2004.

Morgan Stanley is an example of a firm that engages in other non-securities related activities, including Discover credit cards and retail brokerage. The annual report provides the number of total employees and the number of managing directors for the firm. We estimate the number of employees in each segment by applying the ratio of segment to total net revenues to the number of global employees. For example, we estimate that the institutional securities division has 29,472 employees, which is 53,284 times the ratio of \$13,313 to \$23,708. We assume that all the managing directors come from the institutional securities and asset management divisions. This implies that 3% of the employees in those divisions are managing directors, still very low relative to Lehman, Goldman, and Bear Stearns. We estimate U.S. employment as the ratio of U.S. to total net revenue, which we assume is roughly constant across segments of the firm. These calculations yield 780 managing directors at Morgan Stanley.

Proceeding in this fashion for the remaining investment banks, we count 6,006 managing directors based in the U.S. working for these ten firms. We believe that this number is conservative. Private conversations with industry participants suggest that we underestimate the highly paid investment

bankers at some of these firms. We also estimate that adding the rest of the U.S. investment banking sector would raise this figure by a considerable, but unknown amount. In our analysis, we report the income distribution per 10,000 managing directors. We believe this is a reasonable guess as to the total number of managing directors or employees receiving managing director type pay. In any investment bank, there will be a number of highly paid employees who are not yet managing directors. If one wanted to be conservative, we think 7,000 managing directors would represent a minimum.

2. Estimating the Distribution of Pay

According to industry sources, it is rare for a managing director at a top Wall Street firm to receive compensation of less than \$500,000 during the period we are studying. Furthermore, we understand that at least one quarter of managing directors earn in excess of \$2.5 million per year.⁴ Based on this information, we consider two possible distributions of pay. The first is a pareto distribution with a minimum value of \$500,000, which we truncate at \$22.5 million, as this is approximately the top value observed for any investment banking employee.

The cumulative distribution function of the pareto distribution takes the form:

$$P(X > x) = \left(\frac{x}{x_m}\right)^{-k}$$

where x_m is the minimum value of \$500,000 and we estimate k = 0.8613 based on the restriction that 25% of the distribution earns more than \$2.5 million. This distribution yields estimates that are more conservative at the bottom of the distribution than would be accepted by most industry insiders, with almost half of the managing directors earning less than \$1 million.

The second distribution is an exponential distribution, which we censor below at \$500,000. The cumulative distribution function of the exponential distribution takes the form:

⁴ Our estimates are based on conversations with industry sources. For confirmation, see Lisa Kasenaar, The International Herald Tribune, February 6, 2006 who reports that the Options Group, an executive-search company, estimated that "managing directors may get an average bonus of about \$2.25 million in coming weeks" in 2005; as well as Duff McDonald's "Please, Sir, I Want Some More. How Goldman Sachs is carving up its \$11 billion money pie," in New York Magazine, December 5, 2005

$$P(X > x) = 1 - e^{-\beta x}$$

where we estimate $\beta = 0.00035$ based on the restriction that 25% of the distribution earns more than \$2.5 million. This is our preferred distribution. It is more liberal at the upper end of the distribution than the truncated pareto, though it is in fact more conservative at the very top. The exponential distribution allows only 0.1% of managing directors to earn more than \$20 million, compared to 0.4% as given by the truncated pareto distribution.

It is our understanding that most of the pay estimated here will show up as W-2 income for the managing directors. Most of the investment banks are public companies and C corporations. The MDs of these firms will receive W-2 income. MDs of private firms may receive K-1 or partnership income. It is our understanding that the majority of income and bonus that MDs receive is in the form of cash. This will appear as W-2 income in the year it is received. For many investment banks, MDs receive some fraction of compensation as restricted stock and options. For this compensation, there will be a timing difference between our estimates and actual W-2's. Restricted stock will appear as W-2 income when it vests and option gains will appear when the options are exercised.

Table 2b reports these estimated distributions of pay for 10,000 managing directors alongside the W-2 and AGI brackets. The third vertical panel presents the percent of each bracket accounted for by every 10,000 managing directors, and the fourth presents the number of individuals earning at least the minimum bracket amount for every 10,000 managing directors. As noted above, we believe that 10,000 managing directors is a reasonable estimate for Wall Street as a whole.

Even given the conservative assumptions we have made along the way in constructing these estimates, 10,000 top-tier managing directors at investment banks generate enough wage earnings above \$2.5 million (the top 0.1%) to explain at least 13.5% (Pareto) and as many as 25.4% (exponential) of the individuals in the economy earning above that amount. Using the AGI brackets, the managing directors explain between 5% and 9% of the individuals earning more than \$4 million (or the top 0.02% of the distribution).

3. Historical Wall Street.

It seems likely that the number of managing directors on Wall Street and their compensation have increased substantially in the last 20 or 30 years. Unfortunately, data availability concerns make it difficult if not impossible to repeat our 2004 analysis for earlier periods. We can, however, get a sense of the growth in Wall Street by compare the number of employees and capital employed at Wall Street firms over time. The Securities Industry Association (SIA) provides a list of the top 50 securities firms each year. We collected the 2004 list as well as the 1987 list (the furthest back we could find). We also obtained the list of the top 50 securities firms in 1972 provided by the Investment Banker-Broker Almanac.

Table 2c reports the total number of global employees and the total global capital employed at the top 50 U.S. securities firms in 1972, 1987, and 2004. Employment increased by 170% from 1972 to 1987 and, by 79% from 1987 to 2004. Capital employed by those employees increased exponentially by more than ten times from 1972 to 1987, and by more than twenty times from 1987 to 2004. Capital per employee, therefore, increased substantially as well, from \$34 thousand (\$124 thousand in \$2004) in 1972 to \$136 thousand (\$203 thousand) in 1994 to \$1,789 thousand in 2004. This represents a remarkable increase in capital per employee, particularly since 1994.

Similarly, Morrison and Wilhelm (2004) present evidence concerning investment banks in the 1960s and 1970s. In 1970, their tabulations indicate that the top twenty-three investment banks have a total of fewer than 1,600 partners and average capital per partner of less than \$0.75 million. This would represent \$3 million of capital per partner in 2004 dollars. Assuming that the firms in table 2c have 10,000 managing directors, table 2c implies almost \$70 million of capital per managing director, a 23 fold increase relative to 1970.

B. Alternative Assets

Over the last twenty years, there has been a large increase in the amount of money allocated by institutional investors and wealthy individuals to alternative asset classes. The most prominent members

of the alternative asset classes are hedge funds, venture capital (VC) funds, and private equity (PE) or buyout funds. These funds are of interest for compensation and the income distribution because the hedge fund and private equity fund investors potentially receive substantial compensation.

The fees typically paid to the alternative asset fund – whether hedge, VC or PE fund – consists of a management fee that equals a percentage of total or committed capital and a profit share or carried interest of the profits of the fund (after paying the management fees). The typical compensation for hedge funds today is 2/20, i.e., 2% management fee and 20% of the profits on total capital although the top performing hedge funds charge more. This also is typical for VC and PE funds based on committed capital. It is typical for the larger PE funds to reduce the management fee to $1\frac{1}{2}$ % of committed capital while smaller VC funds increase the management fee to $2\frac{1}{2}$ %.⁵ In this section, we attempt to estimate the amount of fees paid to the managers of alternative assets, how those fees have increased over time, and the effect of those fees on the income distribution.

1. Hedge Funds

It is well known that hedge funds have experienced a large increase in assets under management in the last twenty years. Table 3a provides time series of hedge fund assets from three different databases, Hennessee Group, Hedge Fund Research, and TASS. All three confirm the large increase in hedge fund assets from less than \$50 billion in 1990 to roughly \$1 trillion by the end of 2005.

The last three columns of table 3a use the Hennessee Group assets under management, realized (net) hedge fund returns and the typical compensation of 2% / 20% to estimate the fees earned by hedge fund managers. The management fees are estimated by multiplying the assets under management at the beginning of the year (end of previous year) by 2%. The profit share or carry is estimated by multiplying the average return for the year if it is positive by the beginning of year assets under management to get net profit. Because net profit is after carry, we gross up the net profit by dividing by 80% to get the gross profit for the year. We then take 20% of the gross profit as the estimate of the profit share. Total fees are

⁵ See Gompers and Lerner (1999) and Metrick and Yasuda (2006).

the sum of management fees and carried interest. Table 3a estimates that hedge fund fees have increased from less than \$0.5 billion in 1987 to less than \$2 billion in 1994 to \$17.5 billion in 2004 and \$20.5 billion in 2005.

This calculation almost certainly understates compensation because it assumes that all hedge funds earned the average return for the year. Because the 20% profit share is applied only to positive returns (and not negative returns) any appreciable dispersion across funds such that some funds earn negative returns (but not negative carry) implies that the actual profit share exceeds the estimates above. In other words, the profit share acts like a call option.

Malkiel (2004) reports a standard deviation of 11% on the Van Global Hedge Fund index. Chany et al. (2005) report a standard deviation of 8.25% on the CSFB / Tremont hedge fund index. They report mean annualized standard deviations across a sample of over 4,000 individual hedge funds that exceeds 14%. If we conservatively assume a standard deviation of 11% and risk free rate of 3%, using Black-Scholes, a one year call option is worth almost 6% (with a 14% standard deviation, roughly 7%). The 20% profit share is 20% of a call option on an entire fund. This implies that the profit share has an expected annual cost of 1.2% at the 10% standard deviation. Under the assumption of 10% standard deviation of hedge fund returns, the expected fees on a 2 / 20 hedge fund are roughly 3.2%. The last column of table 3a calculates fees on this basis. The estimated fees for 2005 increase from \$20.5 under the simple method to just under \$30 billion. Obviously, the estimate would be higher under higher volatility assumptions.

It is clear there has been a large increase in fees going to hedge funds. There is no doubt that much of this increase shows up as compensation to the owners of the hedge funds and the people they hire.⁶ It is difficult to know exactly how much. In what follows, we provide some rough estimates.

We begin with the list of the top 100 hedge fund firms in Institutional Investor (II) in 2005 which measures assets as of the end of 2004. According to II, these hedge funds managed \$568 billion. Of the

⁶ Note that hedge funds may be organized as partnerships in which much of the carried interest is taxed as capital gains. Thus, carried interest would appear as part of AGI, but would be taxed at low rates. See Fleischer (2006).

100 firms, 79 are listed as U.S. companies with \$459 billion under management. We searched the SEC Investment Advisor Public Disclosure database for information on these funds. Forty-six of these funds provided information to the SEC. These funds are listed by II as having \$268 billion of hedge fund money under management.

The funds reporting to the SEC must list a range of the number of the total number of employees as well as the number of employees who are investment advisory. On average, the forty-six funds list a minimum of 89 and a maximum of 255 employees as well as a minimum of 26 and a maximum of 109 investment advisory employees. This works out to \$160 million per minimum number of employees and \$36 million per maximum number of employees. Similarly, this works out to \$550 million per minimum number of employees and \$159 million per maximum number of investment advisory employees. The average of the minimum and maximum is \$98 million per employee and \$305 million per investment advisory employee.

Another way of looking at this is to divide the total hedge fund assets at these firms by the total number of employees. On this basis, the firms have \$65 million per minimum number of employees and \$23 million per maximum number of employees. Similarly, this works out to \$220 million per minimum number of employees and \$54 million per maximum number of investment advisory employees. The average of the minimum and maximum is \$44 million per employee and \$137 million per investment advisory employee.

In what follows, we assume that the average highly paid employee controls or is compensated from \$100 million of assets. Under the assumption of total fees of 3.2%, this works out to \$3.2 million in fees per highly compensated employee. If we then apply this to \$900 billion of hedge fund assets, we obtain 9,000 highly compensated employees with average fees of \$3.2 million.

This is a very rough estimate. This overstates total compensation to these employees because the hedge fund must pay expenses from these fees. However, operating margins in the money management business are quite high. Before compensating top executives and paying mutual fund marketing expenses (which hedge fund firms do not pay), it is common for publicly-traded mutual fund firms to report

operating margins exceeding 70%.⁷ These estimates also overstate the number of employees who are highly compensated to the extent that some of the assets and employees are not in the United States. At the same time, these estimates will understate total compensation per employee to the extent that the hedge fund firms have other activities and manage other assets.

It is likely that many of the big hedge fund payments will appear as ordinary partnership income on the K-1's of the owners or partners of the hedge funds. Some unknown number of the most highly compensated employees who are not partners will receive W-2 income.

Given the huge increase in hedge fund assets, it is virtually certain that the number of highly compensated employees at hedge funds has increased substantially over time. In 1984, when there were almost no hedge funds, there would have been very few such employees. In 1994, when hedge funds had less than \$100 million in assets under management, hedge fund fees were roughly 10% of the fees in 2005. At the same fee per employee ratio, this implies a ten-fold increase in the number of highly compensated employees. To the extent that the amount of money managed per individual has increased, the number of highly compensated employees will have increased less, but the compensation of each individual will have increased more.

2. Venture Capital and Private Equity Funds

The capital committed to venture capital (VC) private equity (PE) or buyout funds also has increased substantially over time. The first two columns of table 3b present the capital committed to U.S. VC funds and the number of funds raised each year from 1980 to 2005 according to Thomson Financial's Venture Economics database. The next two columns do the same for PE firms. When a VC or PE firm raises a fund, its investors (limited partners) commit to provide a certain amount of money over the investing life of the fund (usually five years). The investments are harvested over the subsequent five to ten years, giving a total commitment period or investment life of ten to fifteen years. The commitments, therefore, represent money committed, but not necessarily invested in a given year.

⁷ See, for example, 2005 10-Ks for Calamos Asset Management, Eaton Vance, and Janus Capital.

The table shows that annual commitments to VC and PE funds have grown from less than \$2.5 billion combined in 1982 to less than \$35 billion in 1994 to over \$150 billion in 2005. Both the number of funds and the size of the average fund have increased.

For purposes of calculating fees, columns 7 and 8 estimate the total amount of money under management in VC and PE at any one time as the sum of the capital committed over the previous seven years (including the current year). This assumes that the VC and PE firms earn management fees on the capital committed for seven years. Most funds actually earn management fees for ten years, but the management fee typically declines after the five year investment period. Overall, the seven year assumption will tend to be conservative.

As mentioned above, compensation typically consists of a management fee (based on committed capital) and a share of the profits. Metrick and Yasuda (2006) report median management fees of 2% and median profit shares of 20% for a large sample of VC and PE funds raised from 2000 to 2005.

Accordingly, the last four columns estimate fees paid to VC and PE funds using the analogous methodology to that used initially for hedge funds. The management fees are estimated by multiplying the assets under management at the beginning of the year (end of previous year) by 2%. The profit share is estimated by multiplying the average return for the year (provided by Venture Economics) if it is positive by the beginning of year assets under management to get net profit. Because net profit is after carry, we gross up the net profit by dividing by 80% to get the gross profit for the year. We then take 20% of the gross profit as the estimate of the profit share. Total fees are the sum of management fees and carried interest.

VC and PE fees also have increased substantially over time. Under these assumptions, the sum of VC and PE funds has increased from less than \$0.25 billion in 1984 to almost \$3 billion in 1994 to \$18 billion in 2005.

As with the hedge funds, the simple calculation above almost certainly understates compensation because it assumes that all VC and PE funds earned the average return for the year. In fact, returns are volatile about the average and the 20% profit share acts like a call option, increasing in value with

volatility. It also is likely the case that VC and PE fund returns are more volatile than hedge fund returns because they are calculated based on performance over the life of the fund rather than annually.

Kaplan and Schoar (2005) present evidence on the performance of VC and PE funds. They report that the historical standard deviation of the returns on VC funds is between 19% and 34%; on PE funds, between 19% and 27%. (The standard deviations depend on whether funds are value- or equal-weighted and whether the returns are calculated by Venture Economics or Kaplan and Schoar.) If we conservatively, assume a standard deviation of 22%, risk-free rate of 3%, the 20% profit share and a 2% management fee, the expected annual fees for VC and PE firms equal 4% of assets under management. In 2005, this would equal more than \$30 billion.

How do these fees translate into compensation? In their sample of VC and PE funds, Metrick and Yasuda (2006) report that the typical VC and PE fund has 6 partners (median of 5 and average of 6.4). Over the last five years, Venture Economics figures indicate over 1,000 VC funds and almost 900 PE funds have been raised. This implies more than 10,000 highly compensated partners, a large increase over the number 25 years ago.

At \$18 billion in fees, this represents roughly \$1.3 million per VC partner and \$2.3 million per PE partner; at \$30 billion in fees, this represents \$2.0 million per VC partner and \$3.8 million per PE partner. Even these estimates may be low. Metrick and Yasuda (2006) estimate that the average partner in a VC firm can expect to receive \$23 million in present value over the life of a fund; the average partner in a PE firm, \$41 million in present value. Assuming a fund lasts for ten years, this works out to fees of \$2.3 million and \$4.1 million per partner per year. However, successful firms invest their funds in four to five years, at which point they raise another fund. As a result, the net present value effectively reflects four or five years of fees, not ten. Assuming five years, this would put the present value of average annual fees received per partner at VC and PE firms equal to \$4.6 million and \$8.2 million, respectively.

These calculations, then, give us a range of fees per partner of \$1.3 to \$4.6 million per VC partner and \$2.3 to \$8.2 million per PE partner. The fees, of course, do not equal compensation received by the partners. VC and PE firms must pay operating expenses – employee salaries, rents, travel, deal costs, etc.

– out of the fees. It is difficult to know exactly what fraction of fees these expenses represent. It seems reasonable to assume that the expenses must be less than the management fee. Otherwise, the partners would need to finance their business themselves. As the management fees represent roughly $\frac{1}{2}$ of the total fees, this puts a lower bound on partner compensation of $\frac{1}{2}$ of the amounts at the beginning of this paragraph. In addition, these fees are averages. We have not attempted to estimates the distribution around these averages.

PE and VC investors are likely taxed similarly to hedge fund investors in that most of the income will appear as partnership income on the K-1's of the owners or partners of the funds. The one difference is that a larger fraction of the PE and VC income will be in the form of long term capital gains. The reason for this is that most of the investments will have a term of greater than one year and the 20% profit shares on those investments will appear as capital gains. (See Fleischer (2006)).

In summary, there is no doubt that VC and PE partners have contributed to the increase in the top end of the income distribution. It seems likely that almost all of the 10,000 individuals earn in excess of the \$0.487 million necessary to put them in the top 0.5% of the income distribution.

As estimated fees increased by more than ten times from 1984 to 1994, and, again, by a factor of six times from 1994 to 2005, this undoubtedly represents a large increase in the number of such individuals since 1984 and 1994. In 1984, roughly 500 VC and PE funds were raised over the last five years. These funds had capital under management of \$19 billion. At 4% total fees, this translates into \$0.76 billion of fees. With six partners per fund, this translates into 3,000 partners and \$0.25 million in fees per partner or \$0.41 million per partner in \$2005. So, the number of partners has more than tripled and the fees per partner have increased by more than a factor of five times over this period.

3. Contributions to the top end of the distribution

In the previous subsection, we are able to estimate average fees per highly compensated individual or partner in hedge fund, VC, and PE firms. We are unable to estimate the contributions of

such firms to the very high end of the distribution. In this section, we use other data sources to attempt to do so.

Table 4a presents Institutional Investor's estimates of the incomes of the top 25 most compensated hedge fund managers from 2003 to 2005. The table also presents the estimates for those hedge fund managers based in the U.S. The table confirms that the top hedge fund investors earn large amounts of compensation. The 20th most highly paid hedge fund manager in the U.S. earned \$92, \$110 and \$150 million, respectively in those three years. This compares to 3 non-financial ExecuComp U.S. executives and our estimate of 4 total non-financial U.S. executives who earned more than \$100 million in 2004.

Table 4b presents estimated earnings of top earners in the financial industry more broadly. The first two columns present the rankings from Financial World for 1988 and 1995. Financial World includes all financial industry individuals including investment bankers, hedge fund and private equity investors. The last three columns combine the rankings from Trader Monthly and II Alpha for 2003 to 2005. Trader Monthly ranks the top traders and hedge fund professionals only. The Trader Monthly and Alpha lists do not include PE and VC investors and therefore, understates such incomes relative to the Financial World rankings.

Nevertheless, Table 4b suggests some conclusions. There is not much of a change in the very top end of the distribution from 1988 to 1995. In both 1988 and 1995, 40 individuals earned more than \$30 million in \$2004 and 10 individuals earned more than \$82 million in \$2004. There appears to have been a large increase in the top end since then. In 2004 and 2005, among only the traders and hedge fund investors, more than 57 individuals earned more than \$30 million and more than 37 individuals earned more than \$82 million. Again, this indicates a large increase in the very top end of the income distribution.

C. Mutual Funds

At the same time that alternative assets under management and their fees have grown substantially, so have institutionally managed assets, particularly mutual funds. In this section, we document the increase in assets under management and fees paid to mutual funds.

Table 5a shows that total assets under management at mutual funds have increased from \$135 billion in 1980 to \$2.16 trillion in 1994 to \$8.9 trillion in 2005 with more than half of the assets in 2005 residing in equity mutual funds. The number of funds has grown from fewer than one thousand to almost eight thousand.

Table 5b reports the fees including sales loads paid on these funds. The asset weighted percentage fees have declined over time, driven by the increase in index funds and by the decrease in the use of sales loads. While the percentage fees have declined, the huge increase in assets under management has lead to a substantial increase in fees. Fees have increased from \$1.3 billion in 1980 to \$31.1 billion in 1995 to \$73.1 billion in 2005. In \$2005, they have increased from \$2.7 billion in 1980 to \$37.9 billion in 1995 to \$73.1 billion in 2005.⁸

Unfortunately, it is very difficult to measure the number of people involved in the mutual fund industry and the pay distribution of those individuals. The fees are paid to investment managers as well as to brokers and intermediaries who sell or distribute the mutual funds. Some of these individuals work for the top securities firms and are already counted in the investment banking section. Rather than provide inaccurate estimates, we simply conclude that there are likely many highly compensated individuals in the mutual fund industry and that number has grown substantially since 1980.

IV. Lawyers

We next look at the pay of top corporate lawyers. To do this we rely on American Lawyer Magazine's annual surveys of law firm revenues and compensation. In 1985, Am Law covered the top 50 firms (by revenue); in 1995, the top 100 firms (by revenue); and, in 2005, the top 200 firms. The Am Law surveys are released mid-year and, therefore, reflect results for the previous calendar year. Table 6a,

⁸ Bogle (2005) makes a similar point.

therefore, summarizes the Am Law results for the calendar years 1984 (Am Law 50), 1994 (Am Law 100) and 2004 (Am Law 200).

For the purpose of studying compensation, the current Am Law surveys report the average profit per equity partner at each of the top law firms. Because law firms are typically structured as flow-through entities for tax purposes, the profit an equity partner earns should appear as ordinary income to the partner and will show up in the partner's AGI. As a result, average profit per equity partner likely provides a lower bound on the AGI of the average equity partner because it does not include non-law firm income earned by the partner. Because law firms are typically structured as partnerships, equity partners do not receive W-2's and, therefore, will not show up in the distribution of W-2s.

In our analysis, we prefer to use profit per equity partner because those partners are the key partners in the firms. According to the Am Law survey, equity partners are those who file a Schedule K-1 tax form and receive no more than half their compensation on a fixed-income basis. Non-equity partners receive more than half of their compensation on a fixed-income basis. They are lawyers whom the firm wants to retain, but who do not receive the same voting rights, decision rights, and compensation.

By 2004, most law firms distinguished between equity partners and non-equity partners, with the median Am Law 100 firm having roughly one non-equity partner for each three equity partners. The 2004 Am Law numbers report profits per equity partner. For the 1984 Am Law 50, we use total partners and profits per all partners. At this point, firms had not gone to the model of non-equity partners, so these calculations represent only equity partners. In 1994, some firms had begun to appoint non-equity partners. As a result the Am Law 100 reports the number of equity and non-equity partners. The median firm in the Am Law 100 had no non-equity partners. Unfortunately, the Am Law 100 only reports profit per total partners not profits per equity partner. In our analysis, we report the number of equity partners and profits per all partners for 1994. This slightly understates true profits per equity partner, but likely not more than 10%. When we estimate profits per partner for the 56 firms that do not have any non-equity partners, we obtain average (median) profits per partner that are 9.4% (5.7%) greater than the profits per partner for all 100 firms.

Table 6a summarizes the data from the 1984, 1994, and 2004 Am Law surveys. The data exhibit two strong patterns. First, a large number of law partners are in the top 0.5% and top 0.1% of the income distribution in 2004. Second, both the compensation of law partners and the number of highly compensated law partners have grown substantially over time.

Table 6a indicates that the average profits per partner in the top 50, top 100, and top 200 U.S. law firms in 2004, respectively, were \$1.26, \$1.01 and \$0.83 million. These averages are the averages of the average profit per partner for each firm. The medians of the averages are lower, at \$1.08, \$0.86 and \$0.67 million. These profits accrued to, respectively, 11,034, 17,861, and 26,755 partners. Average profits per partner exceed \$2 million for 9 firms; they are at least \$0.5 million for 93 of the top 100 firms, and 152 of the top 200 firms. The profit per partner estimates should be compared to the 2004 AGI distribution. In 2004, AGI's of \$0.487 million and \$1.409 million, respectively, were in the top 0.5% and top 0.1% of the AGI distribution.

Because, the law firms do not make the profit distributions to individual partners known to the public, it is impossible to know exactly how the payouts to individual partners are distributed around the average profits per partner. Conversations with law partners suggest that the distribution is not so skewed as the distribution of CEO pay. In what follows, we make the following distributional assumption. We assume that 1/3 of the partners earn more than the average while 2/3 of the partners make less than the average. We assume that the most highly paid partner earns twice the average while the least highly paid partner earns half the average. We base this distribution on conversations with law partners at top firms. For some firms, the distribution is less skewed; for others, more skewed. Our sense is that this captures the distribution on average. The bottom line of our results would not be very different if we assumed a less skewed distribution.

Based on these distributions, we estimate that 14,189 of the 17,861 partners in the Am Law 100 earned more than \$0.5 million in 2004. If they received W-2's, they would comprise roughly 6% of the W-2's above \$0.5 million (top 0.162%). Table 6b indicates that they represent almost 2% of the returns with AGI's in the top 0.5%. We also estimate that 6,118 partners earn more than \$1.0 million. Again, if

they received W-2's, they would comprise roughly 6% of the W-2's above \$1.0 million. We estimate that 3,116 partners in the Am Law 100 earn more than \$1.41 million, the top 0.1% AGI cutoff. Table 6b indicates that these lawyers also represent roughly 2% of the returns in this category.

If we extend the analysis to the Am Law 200, we estimate that another 4,036 lawyers earn more than \$0.5 million, bringing the total to almost 18,000; another 870 earn more than \$1.0 million, bringing that total to almost 7,000; and another 305 earn more than \$1.41 million bringing the total to 3,421.⁹ Table 6b also indicates that when the Am Law 200 firms are included, equity partners comprise roughly 2.5% of the AGI distribution above the top 0.5% and top 0.1%.

The estimated 18,353 lawyers with AGI's in the top 0.5% are similar in magnitude to the estimates of 18,676 top non-financial executives in Table 1c - 7,209 ExecuComp executives and an estimated 11,467 non-ExecuComp executives. There are undoubtedly a large number of lawyers in the top end of the income distribution. It is worth adding that the Am Law survey does not include prominent plaintiffs' law firms nor does it include smaller "boutique" corporate law firms that will include some highly paid lawyers.

Second, Table 6a also indicates that lawyers have experienced a large real increase in pay over the last 10 and 20 years. In 1984, the average profit per partner at the top 50 firms was \$0.309 million or \$0.498 million in \$2004. By 1994, the average profit per partner had increased to \$0.531 million or \$0.636 in \$2004. And by 2004, the average profit per partner at the top 50 firms had increased to \$1.260 million representing a nominal increase of roughly 300% and a real increase of 165%.

The table also reports the AGI cutoffs for the top 0.5% and top 0.1% of the AGI distribution in those three years. In 2004, AGI of \$0.487 million and \$1.409 million, respectively, were in the top 0.5% and top 0.1% of the AGI distribution. In 1994, the analogous figures were \$0.276 million and \$0.712 M; in 1984, they were \$0.160 million and \$0.418 million. While the average profit per partner in 1984 and 1994 is close to the midpoint of the two cutoffs, the average profit per partner is much closer to the top

⁹ Because some of the partners of these law firms are based overseas, this overstates the true number of partners in these brackets. It is impossible to know how large this effect is, both absolutely and compared to the overstatement for top executives.

0.1% in 2004 suggesting that the average law partner is now at a higher point in the AGI distribution than before.

The previous paragraph compares the average profit per partner over time and reports that it has increased in real terms. Table 6a also indicates that the number of partners has increased substantially going from an average of 90 in 1984, to 155 in 1994 and to 221 in the top 50 firms in 2004. In the top 100 firms, the average number of equity partners increased from an average of 130 in 1994 to 179 in 2004.

Table 6b shows the effect of the increase in equity partners by comparing the contribution of the equity partners in the Am Law 100 in 1994 and 2004 to the top AGI brackets. Table 6b also compares the relative contributions of equity partners in the Am Law 50 in 1984, 1994, and 2004 to the top AGI brackets. The table indicates that the equity partners at top law firms have markedly increased their presence in the top income brackets. In 1984, Am Law 50 partners represented 0.50% of the top 0.5% and 1.06% of the top 0.1%. These increased to 0.87% and 0.98%, respectively, in 1994, and to 1.37% and 1.85% in 2004. Am Law 100 partners comprised 1.41% of the top 0.5% and 1.31% of the top 0.1% AGI brackets in 1994. This increased to 1.97% and 2.16%, respectively, in 2004. The increases from 1994 to 2004 are larger than those for the ExecuComp executives.

Overall then, the representation of top corporate lawyers in the top 0.5% and top 0.1% AGI brackets has increased substantially over time.

V. Professional Athletes

In this section, we look at the pay of professional athletes. To do this, we collect compensation information on professional baseball, football, and basketball players in the U.S. These three sports are among the most popular in the U.S. and include a relatively large number of athletes.

We obtain baseball compensation information for 1984 to 2005 from the "Business of Baseball" website (http://roadsidephotos.sabr.org/baseball/data.htm) and from USA Today for 2005. We obtain basketball and football compensation information from Professor Rodney Fort of Washington State

University (<u>http://www.rodneyfort.com/PHSportsEcon/Common/OtherData/DataDirectory.html</u>). Fort credits sports statistician Patricia Bender for the basketball information from 1991-2000, and the USA Today site for information from 2001-present. He obtained the football information from USA Today and Sports Illustrated. These figures understate AGI because they only include income earned from the athlete's team and, therefore, do not include any income from endorsements and other sources

Tables 7a and 7b describes the extent to which those professional athletes are represented in the top end of the W-2 and AGI distributions for 1995 and 2004. The level of pay has increased substantially. In 1995, 1259 athletes earned more than \$0.5 million and only 37 earned more than \$5 million. By 2004, just over 2,000 athletes earned more than \$0.5 million, but 369 earned more than \$5 million.

Table 7a indicates that the athletes represent almost the identical percentage of the top W-2 brackets in 2004 as they did in 1995. In 1995, the athletes in baseball, football and basketball represented 5.0% of the W-2's above \$1.5 million (top 0.0076%) and 5.8% of those above \$4 million (top 0.001%). In 2004, they represented 5.1% of the W-2's above \$3.0 million (top 0.0083%) and 5.8% of those above \$10 million (top 0.001%). In 1999, the athletes comprised a smaller fraction of the top brackets, probably because of the large number of high W-2's from option exercises at the peak of the tech boom.

Table 7b indicates that the athletes represent a larger percentage of the top AGI brackets in 2004 than they did in 1995. In 1995, the athletes in baseball, football and basketball represented 1.0% of the returns above \$3.5 million (top 0.010%) and 0.5% of those above \$5 million (top 0.0057%). In 2004, they represented 1.4% of the returns above \$5.0 million (top 0.018%) and 1.1% of those above \$10 million (top 0.007%), again, using the 2001 AGI distribution for 2004. Using the less-detailed but available AGI distributions for 2004, professional athletes comprised 1.0% of the top 0.01% of the distribution in 1995 and 1.4% of the top 0.01% of the distribution in 2004.

Over this period, then, professional athletes, like lawyers and top executives have increased their share of the very top AGI brackets.

VI. Contributions to top end of the income distribution

In this section, we attempt to aggregate the results from the previous section to see how many individuals we can identify at the very top end of the income distributions.

To summarize, we have estimated the number of high income individuals who are top executives at public companies, highly compensated investment bankers, hedge fund investors, VC investors, PE investors, lawyers and professional athletes. Table 8a presents a summary of the individuals that we count in each category for the top fractiles – from top 0.5% to top 0.0001% -- of the earnings distribution in 2004. Table 8a also includes the estimated earnings of the individuals in the Forbes Celebrity 100 in 2004. The table does not include estimates of the number of high paid individuals at mutual funds and other institutional money managers. As a result, we believe that the estimates in these tables understate the individuals in our groups that are in the top brackets.

In Table 8a, we use the ExecuComp data and our estimates of the non-ExecuComp companies to populate the top brackets for executives of non-financial and financial companies. We use the exponential-based estimates of the distribution of investment banker income. For hedge fund investors, assuming an average compensation of 3.2% of assets under management, we estimated an average of \$3.2 million in compensation per 9,000 highly compensated employees. In table 8a, we assume that all 9,000 have AGI above \$0.5 million (top 0.5%) and 1/3 or 3,000 have AGI above \$1.4 million (top 0.1%). We use Trader Monthly and the II Alpha 25 for the very top end of the hedge fund distribution. We almost certainly underestimate the number of hedge fund investors in the top 0.01% (\$7.2 million) because the Trader Monthly and II Alpha lists do not report enough hedge fund investor incomes to go below \$12 million. For VC investors, assuming an average compensation per 6,000 partners. We assume that all 6,000 partners have AGI above \$0.5 million and 1/5 or 1,200 have AGI above \$1.4 million. For PE investors, under the 4.0% assumption, we estimated an average of \$3.8 million in compensation per 5,400 partners. We assume that all 5,400 have AGI above \$0.5 million and 2/5 or 2,160 have AGI above \$1.4 million.

For VC and PE, we do not try to make any assumptions for incomes above the top 0.01%. We use the distributions calculated earlier for law partners and professional athletes.

Table 8a indicates that our groups comprise at least 8.9% of those in the top 0.5% AGI bracket and more than 16% of those in the top 0.1% and above AGI brackets. Our groups explain at least 22% of the individuals with AGI's in the top 0.0001% (incomes greater than \$101 million) with hedge fund investors explaining by far the greater share -26 of 32.

Including financial top executives, investment bankers, hedge funds, VC investors, and PE investors, we count roughly twice as many Wall Street individuals as Main Street individuals (non-financial top executives) in the top 0.5% and the top 0.1% of the AGI distribution. If we include law partners with Wall Street, we count three times as many Wall Street individuals as Main Street individuals in the top 0.5% and 2.3 times as many in the top 0.1%.

We also estimate that financial top executives, investment bankers, and hedge fund investors comprise roughly the same fraction of the top 0.01% and top 0.001% as top Main Street individuals and a substantially greater fraction of the top 0.0001%. Including VC investors, PE investors and mutual fund investors would almost certainly tip the fraction in favor of Wall Street for the top 0.01% and 0.001%.

Table 8b provides a coarse look at a historical analysis of table 8a by examining counts of executives, hedge fund individuals and professional athletes in the top brackets over time. The table confirms that top non-financial executives comprise a larger fraction of the top income brackets over time, particularly using TDC2, and that financial investors have consistently comprised a larger fraction of the very very top of the distribution than top executives of public companies.

Table 8c takes an alternative look at our different groups. It summarizes the dollar amounts of AGI and fees of our various groups and how they have changed over time. The AGI of the non-financial executives in ExecuComp has increased in real terms by a factor of 2.6 times from \$8.4 billion (\$6.9 billion nominal) in 1994 to \$22.0 billion in 2004. Law partners at the Am Law 100 have seen a similar increase in total profits over this period of 2.6 times from \$7.1 to \$18.1 billion. Estimated fees to hedge fund investors, VC investors, and PE investors have increased, respectively, by factors of 6.9, 7.8, and 4.0

times. Estimated fees to mutual funds increased by 1.90 times from 1995 to 2004 after having increased by 4.6 times from 1985 to 1995.

While it is not possible to map all of these results into changes in the income distribution, these results again strongly suggest that Wall Street and legal professionals along with top executives of public companies have contributed to the widening of the income distribution.

VII. Summary and Implications

We have attempted to measure how much of the inequality today at the top end of the income distribution can be attributed to four different sectors of the economy – top executives of non-financial firms (Main Street); financial service sector employees from investment banks, hedge funds, private equity funds, and mutual funds (Wall Street); lawyers; and professional athletes. We also have estimated how those contributions have varied over time.

Studying these groups, we believe we are able to identify at least 16% to 22% of the individuals who comprise the AGI categories at and above the top 0.1%. We estimate that CEOs and top executives of non-financial public companies comprise less than half of these individuals and do not comprise more than 8% of any of the top AGI brackets. Individuals we characterize as Wall Street professionals comprise at least as great a fraction of the top end of the distribution as the top five executives of "Main Street" public companies.

We believe our assumptions are generally conservative and, therefore, these groups – particularly the non-executive groups – may represent a larger fraction of the very top than we are able to report. Nevertheless, even under less conservative assumptions, we doubt those groups could possibly explain more than 40% of the very top categories. While our estimates represent a substantial portion of the top income groups, they clearly miss a large number of high-earning individuals. This seems strongly inconsistent with the claim in Dew-Becker and Gordon (2005) that CEOs, celebrities, and athletes explain most of the top end of the distribution. We suspect that some of the missing individuals are non-top five

executives of publicly-traded companies, trial lawyers, executives of privately-held companies, and independently wealthy individuals who have a high AGI.

We also find that the representation of the top executives in the top W-2 and AGI brackets has increased only modestly from 1994 to 2004. Using realized compensation, top executives comprise roughly the same fraction of the top 0.1% of the AGI distribution in 2004 as they did in 1994 and a somewhat higher fraction of the top 0.01% (4.14% in 2004 versus 2.48% in 1994). Using ex ante compensation, top executives comprise a slightly lower fraction of those brackets in 2004 than they did in 1994. In contrast, the contributions of lawyers, hedge fund managers, private equity and venture capital professionals have clearly increased substantially over the past 10 and 20 years, likely by a greater amount than the top executives.

We believe these results inform some of the different explanations for the increased skewness at the top end of the income distribution. As mentioned earlier, these explanations include trade theories (Hecksher (1931), Olin (1933), Stolper and Samuelson (1941)), skill biased technological change (Katz and Murphy (1992)), increasing returns to generalists rather than specialists (Murphy and Zabojnik (2004), Frydman (2005)), stealing theories (Bebchuk and Fried (2004) and Bebchuk and Grinstein (2005)), social norms (Piketty and Saez (2006a)), greater scale (Gabaix and Landier (2006)), and the economics of superstars (Rosen (1981) which posits technological advance as an explanation for greater scale.

We believe our results are not well-explained by trade theories, increasing returns to generalists, stealing theories, and social norms.

The trade theories predict that the increase in inequality will be greater among individuals or groups in industries that are most engaged in trade. It seems unlikely that trade theories can account for the increase in inequality at the top levels of the income distribution given the breadth of the phenomenon across the occupations we study. In particular, it seems difficult for trade to explain the increase in the top end of VC investors, PE investors, and, particularly, lawyers and professional athletes. For example,

it is difficult to understand how trade has increased the pay of U.S. lawyers (most of whose human capital is country-specific) by a factor of four over the last twenty years.

The theory of increasing returns to generalists predicts an increased return to those with generalist skills, and has been proffered as one explanation for the increase in CEO and top executive pay. We think the breadth of the occupation in the increase in the top end of the income distribution is not consistent with this theory. In particular, we do not believe that lawyers, hedge fund investors, investment bankers, or professional athletes have become less specialized / more general over time. In fact, the opposite seems more likely to be true.

The stealing theories argue that corporate governance deteriorated in the last ten years to such an extent that CEOs and top executives have been able to increase their compensation substantially through what amounts to stealing. CEOs (and top executives) are the only one of the groups we study who some argue can set their own pay without competitive negotiation. While we do not test directly whether any group of individuals is stealing or not, our evidence suggests that stealing CEOs or poor corporate governance cannot possibly be more than a small part of the picture of increasing income inequality, even at the very upper end of the distribution. First, top executives occupy only a slightly larger fraction of the top end of the W-2 distribution in 2004 than in 1994. Higher W-2 incomes of all kinds represent a larger fraction of the top end of the AGI distribution in 2004 than in 1994. Second, the top executives represent less than 8% of any of the top AGI brackets and CEOs represent less than 5% of any of the top brackets. Third, other groups that are not in a position to steal have experienced similarly large increases in their contribution to the top AGI brackets. Fourth, realized top executive compensation (as measured by TDC2) is strongly related to a company's stock performance. When we sort top executives into deciles based on TDC2, we find an almost completely monotonic relation between TDC2 deciles and the firms' stock performance relative to its industry over the previous three and five years. Fifth, when we use ex ante compensation rather than realized compensation we find that top executives comprise a slightly smaller fraction of the top end of the AGI distribution in 2004 than they did in 1994.

Piketty and Saez (2006a) conclude that a large part of the increase in inequality at the top end of the distribution is driven by increases in top executive pay. They suggest that "impediments to free markets due to labor market regulations, unions, or social norms regarding pay inequality can keep executive pay below market. Such impediments have been largely removed in the United States, but still exist in Europe and Japan." We do not think our evidence is favorable towards a central role for social norms. While top executive pay has increased, so has the pay of other groups, particularly Wall Street, who are and were less subject to disclosure and, arguably, less subject to social norms. In addition, the compensation arrangements at hedge funds, VC funds, and PE funds of a 2% management fee and 20% profit share have not changed much, if at all, in the last twenty-five years (see Gompers and Lerner (1999)). What has changed is the amount of capital and the capital per investor allocated to such funds.

We believe that our evidence remains more favorable toward the theories of skill-biased technological change, greater scale and superstars.

Skill biased technological change predicts that inequality will increase if technological progress raises the productivity of skilled workers relative to unskilled workers and / or raises the price of goods made by skilled workers relative to those made by unskilled workers. For example, computers and advances in information technology may complement skilled labor and substitute for unskilled labor. This seems likely to provide part of the explanation for the increase in pay of professional athletes (technology increases their marginal product by allowing them to reach more consumers) and Wall Street investors (technology allows them to acquire information and trade large amounts more efficiently).

Gabaix and Landier (2006) argue that the wage differential between the best and next best CEO for a firm will reflect the talent differential between the two multiplied by the size of the firm. In equilibrium, CEOs and top executives will be paid more as their firms and the other firms they can work for become larger. In other words, the larger size increases the returns to hiring the more productive people. As long as other firms are also large, competition for talent will drive wages up. This theory is not necessarily specific to CEOs and top executives.

While we do not test the Gabaix and Landier (2006) theory directly, our results are arguably consistent with it. Gabaix and Landier point out that U.S. public companies have grown larger over time, with the typical large firm increasing in market value by four to seven times in real terms from 1980 to 2003. In our analysis, we find that financial services firms, VC funds, PE funds, hedge funds, and law firms all have grown larger, in many instances by orders of magnitude. For example, the typical law firm in the Am Law 50 has increased revenues by six times in real terms from 1984 to 2004. Similarly, the total amount of capital per employee at the top 50 firms in the securities industry has increased by almost nine times in real terms from 1987 to 2004.

Our results also are consistent with Rosen (1981) who argues that technological change, particularly in information and communications, can increase the relative productivity of superstars or talented individuals. Rosen's theory can be viewed as a combination of the previous two explanations in that the individuals and firms who benefit from the technological change are likely to get larger. It is worth noting that Gabaix and Landier do not explain why firms (and funds) have been able to become so much larger over time. The same technological change that is biased towards skills may have helped firms and funds to become larger during our sample period. A non-skill biased explanation for increasing size would potentially explain why top executive pay and income inequality did not grow from 1940 to 1970 when average firm size also grew substantially.

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| Tuble full is a meeting plant when the compensation meruanic operation based and | Table 1 | 1a: | W-2 | Income | Distri | butio | ı and | Тор | Executi | ve Co | mpensation | Inclu | iding | Option | s Ex | ercised |
|--|---------|-----|------------|--------|--------|-------|-------|-----|---------|-------|------------|-------|-------|--------|------|---------|
|--|---------|-----|------------|--------|--------|-------|-------|-----|---------|-------|------------|-------|-------|--------|------|---------|

| | | | Execuce | Execucomp Non-Fina | | eucomp Non-Financial Execucomp Financial | | Estimated Upper Bound of Non- Execucomp Non-Financial Executives | | | Estimated Upper Bound of Non- Execucomp Financial Executives | | | |
|-------------------------------|-------------------|----------------|-------------------------|---------------------|----------------------------------|--|---------------------|--|-------------------------|---------------------|---|-------------------------|---------------------|----------------------------------|
| Bracket | Number of W-2s | Top Percentile | Number of Executives | Share of Bracket | Share of Bracket and Above | Number of Executives | Share of Bracket | Share of Bracket and Above | Number of Executives | Share of Bracket | Share of Bracket and Above | Number of Executives | Share of Bracket | Share of Bracket and Above |
| 2004 | | | | | | | | | | | | | | |
| 500,000.00 — 999,999.99 | 171028 | 0.16161% | 1894 | 1.1% | 2.6% | 129 | 0.1% | 0.2% | 3962 | 2.3% | 3.7% | 672 | 0.4% | 0.7% |
| 1,000,000.00 — 1,499,999.99 | 34058 | 0.04716% | 1071 | 3.1% | 6.1% | 73 | 0.2% | 0.6% | 1697 | 5.0% | 7.1% | 278 | 0.8% | 1.5% |
| 1,500,000.00 — 1,999,999.99 | 13232 | 0.02437% | 697 | 5.3% | 8.9% | 59 | 0.4% | 0.9% | 981 | 7.4% | 9.0% | 198 | 1.5% | 2.1% |
| 2,000,000.00 - 2,499,999.99 | 6781 | 0.01551% | 476 | 7.0% | 11.0% | 40 | 0.6% | 1.2% | 589 | 8.7% | 9.9% | 149 | 2.2% | 2.4% |
| 2,500,000.00 — 2,999,999.99 | 4015 | 0.01098% | 356 | 8.9% | 12.7% | 31 | 0.8% | 1.4% | 370 | 9.2% | 10.5% | 67 | 1.7% | 2.5% |
| 3,000,000.00 — 3,499,999.99 | 2613 | 0.00829% | 260 | 10.0% | 13.9% | 25 | 1.0% | 1.7% | 258 | 9.9% | 10.9% | 115 | 4.4% | 2.8% |
| 3,500,000.00 — 3,999,999.99 | 1817 | 0.00654% | 191 | 10.5% | 14.9% | 21 | 1.2% | 1.9% | 169 | 9.3% | 11.1% | 51 | 2.8% | 2.4% |
| 4,000,000.00 — 4,499,999.99 | 1304 | 0.00533% | 182 | 14.0% | 16.0% | 15 | 1.2% | 2.0% | 132 | 10.1% | 11.6% | 44 | 3.4% | 2.3% |
| 4,500,000.00 — 4,999,999.99 | 969 | 0.00445% | 136 | 14.0% | 16.4% | 11 | 1.1% | 2.2% | 120 | 12.3% | 11.8% | 17 | 1.8% | 2.1% |
| 5,000,000.00 — 9,999,999.99 | 3860 | 0.00380% | 562 | 14.6% | 16.7% | 59 | 1.5% | 2.4% | 439 | 11.4% | 11.8% | 99 | 2.6% | 2.2% |
| 10,000,000.00 — 19,999,999.99 | 1319 | 0.00122% | 256 | 19.4% | 21.4% | 49 | 3.7% | 4.1% | 181 | 13.7% | 12.6% | 20 | 1.5% | 1.3% |
| 20,000,000.00 - 49,999,999.99 | 410 | 0.00034% | 111 | 27.1% | 26.5% | 22 | 5.4% | 5.1% | 42 | 10.1% | 9.7% | 2 | 0.5% | 0.8% |
| 50,000,000.00 and over | 96 | 0.00006% | 23 | 24.0% | 24.0% | 4 | 4.2% | 4.2% | 8 | 8.0% | 8.0% | 2 | 1.9% | 1.9% |
| 1994 | | | | | | | | | | | | | | |
| 500,000.00 — 999,999.99 | 55764 | 0.05533% | 2016 | 3.6% | 5.2% | 217 | 0.4% | 0.7% | 3085 | 5.5% | 6.4% | 349 | 0.6% | 0.7% |
| 1,000,000.00 — 1,499,999.99 | 9173 | 0.01263% | 768 | 8.4% | 10.5% | 103 | 1.1% | 1.7% | 790 | 8.6% | 9.5% | 107 | 1.2% | 1.0% |
| 1,500,000.00 — 1,999,999.99 | 3065 | 0.00560% | 335 | 10.9% | 13.3% | 57 | 1.9% | 2.3% | 253 | 8.3% | 10.6% | 17 | 0.6% | 0.8% |
| 2,000,000.00 - 2,499,999.99 | 1545 | 0.00325% | 195 | 12.6% | 15.0% | 32 | 2.1% | 2.7% | 156 | 10.1% | 12.2% | 6 | 0.4% | 1.0% |
| 2,500,000.00 — 2,999,999.99 | 820 | 0.00207% | 126 | 15.4% | 16.3% | 19 | 2.3% | 3.0% | 143 | 17.4% | 13.4% | 16 | 2.0% | 1.4% |
| 3,000,000.00 — 3,499,999.99 | 501 | 0.00144% | 73 | 14.6% | 16.7% | 17 | 3.4% | 3.3% | 57 | 11.4% | 11.7% | 13 | 2.5% | 1.1% |
| 3,500,000.00 — 3,999,999.99 | 286 | 0.00106% | 42 | 14.7% | 17.5% | 14 | 4.9% | 3.3% | 28 | 9.9% | 11.8% | 1 | 0.3% | 0.6% |
| 4,000,000.00 — 4,499,999.99 | 226 | 0.00084% | 32 | 14.2% | 18.2% | 5 | 2.2% | 2.9% | 37 | 16.6% | 12.3% | 0 | 0.0% | 0.7% |
| 4,500,000.00 — 4,999,999.99 | 157 | 0.00067% | 21 | 13.4% | 19.2% | 5 | 3.2% | 3.1% | 19 | 12.4% | 11.2% | 2 | 1.1% | 0.9% |
| 5,000,000.00 — 9,999,999.99 | 597 | 0.00055% | 106 | 17.8% | 20.5% | 13 | 2.2% | 3.1% | 63 | 10.5% | 10.9% | 3 | 0.4% | 0.8% |
| 10,000,000.00 — 19,999,999.99 | 90 | 0.00009% | 29 | 32.2% | 34.8% | 8 | 8.9% | 7.8% | 8 | 9.4% | 12.7% | 3 | 3.7% | 2.9% |
| 20,000,000.00 — 49,999,999.99 | 25 | 0.00002% | 10 | _ | 44.0% | 1 | _ | 4.0% | 6 | _ | 24.7% | 0 | _ | 0.0% |
| 50,000,000.00 and over | ¥ | | 1 | | _ | 0 | _ | _ | 0 | | _ | 0 | _ | _ |

This table shows the distribution of total compensation including options exercised (TDC2) for executives in Execucomp relative to the distribution of W-2 income from the Social Security Administration. Only the top 5 executives in terms of TDC2 are counted for each Execucomp company. Financial firms are defined as firms that have an SIC code between 6000 and 6299, which includes depository institutions, nondepository credit institutions, and securities and commodities brokers. To estimate non-execucompexecutives, we begin with the set of all Compustat firms not in ExecuComp. We keep only those whose equity market value exceeds the minimum for the S&P600 Smallcap index. We then assign each firm to the category it is closest to among the S&P500, S&P400 Midcap, or S&P600 Smallcap index. To do this, we assume that if a firm's equity market value exceeds the maximum equity market value for S&P400 Midcap firms, it is like a S&P500 firm. If a firm's equity market value is above the minimum equity market value for the S&P600 Smallcap firms, but below the minimum equity market value for the S&P400 Midcap firms, it is like an S&P600 Smallcap firm. Finally, we assume that if the firm is above \$1 billion it is like a S&P400 Midcap firms. To get the actual number of executives, we take the distribution of the actual S&P category and scale it by the ratio of actual S&P category firms to the count of the corresponding assigned non-ExecuComp category.

Table 1b: AGI Income Distribution and Top Executive Compensation Including Options Exercised

| | | - | | omp Non-l | Financial | Exect | acomp Fin | ancial | Estimated Execuce | Upper Bou omp Non-I Executives | and of Non- Financial | Estimated Execucom | Upper Bou p Financial | ind of Non- Executives |
|---------------------------------|-----------------------|----------------|-------------------------|---------------------|----------------------------------|-------------------------|---------------------|----------------------------------|-------------------------|--------------------------------------|----------------------------------|-------------------------|--------------------------|----------------------------------|
| Bracket | Number of Families | Top Percentile | Number of Executives | Share of Bracket | Share of Bracket and Above | Number of Executives | Share of Bracket | Share of Bracket and Above | Number of Executives | Share of Bracket | Share of Bracket and Above | Number of Executives | Share of Bracket | Share of Bracket and Above |
| 2004 | | | | | | | | | | | | | | |
| 500,000.00 — 999,999.99 | 433145 | 0.4911% | 1894 | 0.4% | 0.9% | 129 | 0.0% | 0.1% | 3962 | 0.9% | 1.3% | 672 | 0.2% | 0.3% |
| 1,000,000.00 — 1,499,999.99 | 103964 | 0.1752% | 1071 | 1.0% | 1.8% | 73 | 0.1% | 0.2% | 1697 | 1.6% | 2.1% | 278 | 0.3% | 0.4% |
| 1,500,000.00 — 1,999,999.99 | 45104 | 0.0993% | 697 | 1.5% | 2.4% | 59 | 0.1% | 0.2% | 981 | 2.2% | 2.4% | 198 | 0.4% | 0.6% |
| 2,000,000.00 — 4,999,999.99 | 65548 | 0.0664% | 1601 | 2.4% | 2.8% | 143 | 0.2% | 0.3% | 1637 | 2.5% | 2.5% | 444 | 0.7% | 0.6% |
| 5,000,000.00 — 9,999,999.99 | 15835 | 0.0186% | 562 | 3.5% | 3.7% | 59 | 0.4% | 0.5% | 439 | 2.8% | 2.6% | 99 | 0.6% | 0.5% |
| 10,000,000.00 — 19,999,999.99* | 7283 | 0.0071% | 256 | 3.5% | 4.0% | 49 | 0.7% | 0.8% | 181 | 2.5% | 2.4% | 20 | 0.3% | 0.2% |
| 20,000,000.00 - 49,999,999.99** | 1912 | 0.0017% | 111 | 5.8% | 5.6% | 22 | 1.2% | 1.1% | 42 | 2.2% | 2.1% | 2 | 0.1% | 0.2% |
| 50,000,000.00 and over** | 482 | 0.0004% | 23 | 4.8% | 4.8% | 4 | 0.8% | 0.8% | 8 | 1.6% | 1.6% | 2 | 0.4% | 0.4% |
| 1994 | | | | | | | | | | | | | | |
| 500,000.00 — 999,999.99 | 151689 | 0.1779% | 2016 | 1.3% | 1.7% | 217 | 0.1% | 0.2% | 3085 | 2.0% | 2.1% | 349 | 0.2% | 0.2% |
| 1,000,000.00 — 1,499,999.99 | 32760 | 0.0563% | 768 | 2.3% | 2.5% | 103 | 0.3% | 0.4% | 790 | 2.4% | 2.2% | 107 | 0.3% | 0.2% |
| 1,500,000.00 — 1,999,999.99 | 13652 | 0.0300% | 335 | 2.5% | 2.6% | 57 | 0.4% | 0.5% | 253 | 1.9% | 2.1% | 17 | 0.1% | 0.2% |
| 2,000,000.00 - 2,499,999.99 | 7091 | 0.0191% | 195 | 2.7% | 2.7% | 32 | 0.5% | 0.5% | 156 | 2.2% | 2.2% | 6 | 0.1% | 0.2% |
| 2,500,000.00 — 2,999,999.99 | 4089 | 0.0134% | 126 | 3.1% | 2.6% | 19 | 0.5% | 0.5% | 143 | 3.5% | 2.2% | 16 | 0.4% | 0.2% |
| 3,000,000.00 — 3,499,999.99 | 2800 | 0.0101% | 73 | 2.6% | 2.5% | 17 | 0.6% | 0.5% | 57 | 2.0% | 1.7% | 13 | 0.5% | 0.2% |
| 3,500,000.00 — 3,999,999.99 | 1767 | 0.0079% | 42 | 2.4% | 2.5% | 14 | 0.8% | 0.5% | 28 | 1.6% | 1.7% | 1 | 0.0% | 0.1% |
| 4,000,000.00 — 4,499,999.99 | 1313 | 0.0065% | 32 | 2.4% | 2.5% | 5 | 0.4% | 0.4% | 37 | 2.9% | 1.7% | 0 | 0.0% | 0.1% |
| 4,500,000.00 — 4,999,999.99 | 984 | 0.0054% | 21 | 2.1% | 2.5% | 5 | 0.5% | 0.4% | 19 | 2.0% | 1.4% | 2 | 0.2% | 0.1% |
| 5,000,000.00 — 9,999,999.99 | 3799 | 0.0046% | 106 | 2.8% | 2.5% | 13 | 0.3% | 0.4% | 63 | 1.7% | 1.3% | 3 | 0.1% | 0.1% |
| 10,000,000.00 — 19,999,999.99 | 1424 | 0.0016% | 29 | 2.0% | 2.0% | 8 | 0.6% | 0.5% | 8 | 0.6% | 0.7% | 3 | 0.2% | 0.2% |
| 20,000,000.00 — 49,999,999.99 | 439 | 0.0004% | 10 | 2.3% | 2.0% | 1 | 0.2% | 0.2% | 6 | 1.4% | 1.1% | 0 | 0.0% | 0.0% |
| 50,000,000.00 and over | 102 | 0.0001% | 1 | 1.0% | 1.0% | 0 | 0.0% | 0.0% | 0 | 0.0% | 0.0% | 0 | 0.0% | 0.0% |

This table shows the distribution of total compensation including options exercised (TDC2) for executives in Execucomp relative to the distribution of AGI income from the Internal Revenue Service. See note to Table 1a for notes on the executive sample, the definition of financial and non-financial firms, and the computation of the count for non-Execucomp executives. Only the top 5 executives in terms of TDC2 are counted for each Execucomp company. Percentiles are shown relative to all families, regardless of whether they filed a tax return or not.

* Number of families in this range are based on the 2004 AGI distribution for \$10 million and over, minus the number of families in the higher ranges from the 2001 detailed AGI distribution, the latest year for which figures are available at this level of detail.

** Numbers of families in these ranges are from the 2001 detailed AGI distribution, the latest year for which figures are available at this level of detail.

| | | | Execuce | omp Non-F | Financial | Exect | ucomp Fina | ancial | Estimated Execuce | Upper Bou omp Non-F Executives | Ind of Non- Financial | Estimated Execucom | Upper Bou p Financial | nd of Non- Executives |
|----------------------|----------------|-------------------------------|-------------------------|---------------------|----------------------------------|-------------------------|---------------------|----------------------------------|-------------------------|--------------------------------------|----------------------------------|-------------------------|--------------------------|----------------------------------|
| Bottom of Bracket | Top of Bracket | Number of Families Bracket | Number of Executives | Share of Bracket | Share of Bracket and Above | Number of Executives | Share of Bracket | Share of Bracket and Above | Number of Executives | Share of Bracket | Share of Bracket and Above | Number of Executives | Share of Bracket | Share of Bracket and Above |
| 2004 | | | | | | | | | | | | | | |
| \$0 | \$316,806 | 142,542,180 0-99 | 593 | 0.00% | 0.01% | 30 | 0.00% | 0.00% | 1400 | 0.00% | 0.01% | 252 | 0.00% | 0.00% |
| \$316,806 | \$487,171 | 719,910 99-99.5 | 930 | 0.13% | 0.50% | 56 | 0.01% | 0.04% | 2362 | 0.33% | 0.80% | 448 | 0.06% | 0.15% |
| \$487,171 | \$1,409,886 | 575,928 99.5-99.9 | 2876 | 0.50% | 0.87% | 193 | 0.03% | 0.08% | 5598 | 0.97% | 1.26% | 958 | 0.17% | 0.24% |
| \$1,409,886 | \$7,166,178 | 129,584 99.9-99.99 | 2807 | 2.17% | 2.36% | 249 | 0.19% | 0.24% | 3110 | 2.40% | 2.43% | 724 | 0.56% | 0.55% |
| \$7,166,178 | | 14,398 >99.99 | 596 | 4.14% | 4.14% | 102 | 0.71% | 0.71% | 396 | 2.75% | 2.75% | 74 | 0.51% | 0.51% |
| 1994 | | | | | | | | | | | | | | |
| \$0 | \$189,073 | 123,468,840 0-99 | 1400 | 0.00% | 0.01% | 53 | 0.00% | 0.00% | 2620 | 0.00% | 0.01% | 53 | 0.00% | 0.00% |
| \$189,073 | \$276,439 | 623,580 99-99.5 | 417 | 0.07% | 0.51% | 27 | 0.00% | 0.05% | 3461 | 0.55% | 1.04% | 226 | 0.04% | 0.09% |
| \$276,439 | \$712,257 | 498,864 99.5-99.9 | 3249 | 0.65% | 0.94% | 274 | 0.00% | 0.10% | 6797 | 1.36% | 1.52% | 531 | 0.11% | 0.14% |
| \$712,257 | \$3,059,312 | 112,244 99.9-99.99 | 2324 | 2.07% | 2.11% | 315 | 0.00% | 0.30% | 2440 | 2.17% | 2.13% | 306 | 0.27% | 0.26% |
| \$3,059,312 | | 12,472 >99.99 | 309 | 2.48% | 2.48% | 61 | 0.49% | 0.49% | 215 | 1.73% | 1.73% | 17 | 0.14% | 0.14% |

Table 1c: AGI Income Thresholds and Top Executive Compensation Including Options Exercised

This table shows the distribution of total compensation including options exercised (TDC2) for executives in Execucomp relative to the distribution of AGI income that is available for recent years from the Internal Revenue Service. See note to Table 1a for notes on the executive sample, the definition of financial and non-financial firms, and the computation of the count for non-Execucomp executives. Percentiles are shown relative to all families, regardless of whether they filed a tax return or not.

| | | | | Execucomp Non-Financial | | | Execu | Execucomp Financial | | |
|-------------------|----------------|-----------------------|------------|-------------------------|---------------------|----------------------------------|-------------------|---------------------|----------------------------------|--|
| Bottom of Bracket | Top of Bracket | Number of Families | Bracket | Number of CEOs | Share of Bracket | Share of Bracket and Above | Number of CEOs | Share of Bracket | Share of Bracket and Above | |
| 2004 | | | | | | | | | | |
| \$0 | \$316,806 | 142,542,180 | 0-99 | 39 | 0.00% | 0.00% | 0 | 0.00% | 0.00% | |
| \$316,806 | \$487,171 | 719,910 | 99-99.5 | 64 | 0.01% | 0.11% | 1 | 0.00% | 0.01% | |
| \$487,171 | \$1,409,886 | 575,928 | 99.5-99.9 | 393 | 0.07% | 0.20% | 21 | 0.00% | 0.02% | |
| \$1,409,886 | \$7,166,178 | 129,584 | 99.9-99.99 | 742 | 0.57% | 0.74% | 66 | 0.05% | 0.07% | |
| \$7,166,178 | | 14,398 | >99.99 | 318 | 2.21% | 2.21% | 36 | 0.25% | 0.25% | |
| 1994 | | | | | | | | | | |
| \$0 | \$189,073 | 123,468,840 | 0-99 | 20 | 0.00% | 0.00% | 0 | 0.00% | 0.00% | |
| \$189,073 | \$276,439 | 623,580 | 99-99.5 | 45 | 0.01% | 0.11% | 0 | 0.00% | 0.01% | |
| \$276,439 | \$712,257 | 498,864 | 99.5-99.9 | 466 | 0.09% | 0.21% | 26 | 0.00% | 0.02% | |
| \$712,257 | \$3,059,312 | 112,244 | 99.9-99.99 | 724 | 0.65% | 0.70% | 79 | 0.00% | 0.09% | |
| \$3,059,312 | | 12,472 | >99.99 | 146 | 1.17% | 1.17% | 30 | 0.24% | 0.24% | |

Table 1d: AGI Income Thresholds and CEO Compensation Including Options Exercised

This table shows the distribution of total compensation including options exercised (TDC2) for CEOs in Execucomp relative to the distribution of AGI income that is available for recent years from the Internal Revenue Service. See note to Table 1a for the definition of financial and non-financial firms, and the computation of the count for non-Execucomp executives. Percentiles are shown relative to all families, regardless of whether they filed a tax return or not.

Table 1e: AGI Income Thresholds and Top Executive Compensation Including Options Granted

| | | | | Execucomp Non-Financi | | | Execu | Execucomp Financial | | |
|-------------------|----------------|-----------------------|------------|-------------------------|---------------------|----------------------------------|-------------------------|---------------------|----------------------------------|--|
| Bottom of Bracket | Top of Bracket | Number of Families | Bracket | Number of Executives | Share of Bracket | Share of Bracket and Above | Number of Executives | Share of Bracket | Share of Bracket and Above | |
| 2004 | | | | | | | | | | |
| \$0 | \$316,806 | 142,542,180 | 0-99 | 581 | 0.00% | 0.01% | 41 | 0.00% | 0.00% | |
| \$316,806 | \$487,171 | 719,910 | 99-99.5 | 640 | 0.09% | 0.50% | 62 | 0.01% | 0.04% | |
| \$487,171 | \$1,409,886 | 575,928 | 99.5-99.9 | 2951 | 0.51% | 0.91% | 200 | 0.03% | 0.07% | |
| \$1,409,886 | \$7,166,178 | 129,584 | 99.9-99.99 | 3161 | 2.44% | 2.52% | 245 | 0.19% | 0.23% | |
| \$7,166,178 | | 14,398 | >99.99 | 469 | 3.26% | 3.26% | 82 | 0.57% | 0.57% | |
| 1994 | | | | | | | | | | |
| \$0 | \$189,073 | 123,468,840 | 0-99 | 903 | 0.00% | 0.01% | 38 | 0.00% | 0.00% | |
| \$189,073 | \$276,439 | 623,580 | 99-99.5 | 749 | 0.12% | 0.54% | 48 | 0.00% | 0.06% | |
| \$276,439 | \$712,257 | 498,864 | 99.5-99.9 | 2849 | 0.57% | 0.97% | 241 | 0.00% | 0.10% | |
| \$712,257 | \$3,059,312 | 112,244 | 99.9-99.99 | 2753 | 2.45% | 2.56% | 307 | 0.00% | 0.32% | |
| \$3,059,312 | | 12,472 | >99.99 | 445 | 3.57% | 3.57% | 96 | 0.77% | 0.77% | |

This table shows the distribution of total compensation including options granted (TDC1) for executives in Execucomp relative to the distribution of AGI income that is available for recent years from the Internal Revenue Service. See note to Table 1a for notes on the executive sample, the definition of financial and non-financial firms, and the computation of the count for non-Execucomp executives. Percentiles are shown relative to all families, regardless of whether they filed a tax return or not.

Table 2a: Estimated Numbers of Managing Directors or Equivalents at Top Securities Firms

| | | Net Revenue | (millions) | | Employees | | | | | |
|--|----------|-------------|------------|----------------------------|-----------|---|------------------------------|----------------------------------|----------------|---|
| | Currency | Global | U.S. | Ratio of U.S. to Global | Global | ilobal Managing Director (MD) Ratio | Global MDs or Equivalents | U.S. to Global Employee Ratio | U.S. Employees | U.S. MDs or Equivalents in Securities Industries |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| Goldman Sachs Group | US\$ | 20,550 | 12.932 | 63% | 20.722 | 6% | 1.181 | 64% | 13.278 | 757 |
| Bear Stearns Companies | US\$ | 6.813 | 6,172 | 91% | 10,961 | 8% | 850 | 91% | 9,930 | 770 |
| Lehman Brothers | US\$ | 11,576 | 8,225 | 71% | 19,600 | 4% | 784 | 72% | 14,100 | 564 |
| Morgan Stanley | US\$ | 23,708 | 17,365 | 73% | 53,284 | 2% | 1,071 | 73% | 39,028 | |
| Institutional Securities | US\$ | 13,113 | 9,572 | 73% | 29,472 | 3% | 884 | 73% | 21,514 | 645 |
| Asset Management | US\$ | 2,738 | 1,999 | 73% | 6,154 | 3% | 185 | 73% | 4,492 | 135 |
| J.P. Morgan Chase and Co. | US\$ | 43,097 | 32,972 | 77% | 160,968 | _ | _ | 77% | 123,151 | |
| Investment Bank | US\$ | 12,605 | 9,644 | 77% | 17,478 | 4% | 699 | 77% | 13,372 | 535 |
| Treasury & Securities Services | US\$ | 4,857 | 3,716 | 77% | 22,612 | 2% | 452 | 77% | 17,300 | 346 |
| Assets and Wealth Management | US\$ | 4,179 | 3,197 | 77% | 12,287 | 2% | 246 | 77% | 9,400 | 188 |
| Credit Suisse First Boston | CHF | 55,139 | 12,267 | 22% | 19,479 | 3% | 584 | 22% | 4,334 | 130 |
| Deutsche Bank | EUR | 21,546 | | | 65,417 | _ | _ | 18% | 11,954 | |
| Corporate and Investment Bank | EUR | 13,414 | | | 14,130 | 4% | 565 | 18% | 2,582 | 103 |
| Corporate Investments (Private Equity) | EUR | 621 | | | 65 | 4% | 3 | 18% | 12 | 0 |
| UBS | CHF | 50,975 | | | 67,424 | | | 39% | 26,232 | |
| Investment Banking and Securities | CHF | 17,600 | | | 16,970 | 4% | 679 | 39% | 6,602 | 264 |
| Wealth Management (U.S.) | CHF | 5,158 | | | 16,969 | 2% | 339 | 100% | 16,969 | 339 |
| Asset Management | CHF | 2,487 | | | 2,665 | 2% | 53 | 100% | 2,665 | 53 |
| Merrill Lynch | US\$ | 22,023 | 15,878 | 72% | 50,600 | _ | | 79.4% | 40,200 | |
| Global Markets and Investment Banking | US\$ | 11,022 | 7,947 | 72% | 12,000 | 4% | 480 | 79.4% | 9,534 | 381 |
| Investment Management | US\$ | 1,581 | 1,140 | 72% | 2,500 | 4% | 100 | 79.4% | 1,986 | 79 |
| Citigroup Global Market Holdings | US\$ | 39,340 | 18,490 | 47% | 38,000 | 4% | 1520 | 47% | 17,860 | 714 |
| • | | | | | | | | Total U.S. MD | s | 6,006 |

This table presents an assessment of the likely number of U.S. managing directors in the securities business (including asset management but excluding commercial and retail banking) at top 10 investment banking firms. Non-italicized figures are numbers taken directly from the financial reports of the companies in question or calculated as ratios of figures taken directly from the reports. Italicized figures represent imputed figures, which we describe in detail in the text.

Table 2b: Income Distribution and Wall Street Managing Directors in 2004

| | Distribu Compens Managing I Top Investi | ution of sation for Directors at ment Banks | Number | of W-2s | Percent of Bracket Ex 10,000 M Dire | f Category plained per Janaging ctors | Percent of C Above Exp 10,000 M Dire | Category and plained per fanaging ctors |
|--------------------------------|--|--|---------|------------|--|--|---|--|
| | Pareto | Exponential | Whole | Top | Pareto | Exponential | Pareto | Exponential |
| | | 1 | Economy | Percentile | | 1 | | Ĩ |
| W2 Distribution | | | | | | | | |
| 500,000.00 — 999,999.99 | 46.7% | 29.5% | 171028 | 0.16161% | 2.7% | 1.7% | 4.1% | 4.1% |
| 1,000,000.00 - 1,499,999.99 | 16.9% | 11.3% | 34058 | 0.04716% | 5.0% | 3.3% | 7.6% | 10.0% |
| 1,500,000.00 — 1,999,999.99 | 8.9% | 9.5% | 13232 | 0.02437% | 6.7% | 7.2% | 10.0% | 16.2% |
| 2,000,000.00 - 2,499,999.99 | 5.5% | 8.0% | 6781 | 0.01551% | 8.1% | 11.8% | 11.9% | 21.4% |
| 2,500,000.00 - 2,999,999.99 | 3.8% | 6.7% | 4015 | 0.01098% | 9.4% | 16.7% | 13.5% | 25.4% |
| 3,000,000.00 — 3,499,999.99 | 2.8% | 5.6% | 2613 | 0.00829% | 10.6% | 21.5% | 14.8% | 28.3% |
| 3,500,000.00 — 3,999,999.99 | 2.1% | 4.7% | 1817 | 0.00654% | 11.6% | 25.9% | 15.9% | 30.1% |
| 4,000,000.00 - 4,499,999.99 | 1.7% | 4.0% | 1304 | 0.00533% | 12.8% | 30.3% | 16.9% | 31.0% |
| 4,500,000.00 - 4,999,999.99 | 1.4% | 3.3% | 969 | 0.00445% | 14.0% | 34.3% | 17.7% | 31.2% |
| 5,000,000.00 - 9,999,999.99 | 6.4% | 14.4% | 3860 | 0.00380% | 16.7% | 37.2% | 18.3% | 30.6% |
| 10,000,000.00 - 19,999,999.99 | 3.5% | 2.9% | 1319 | 0.00122% | 26.8% | 22.2% | 21.7% | 16.8% |
| 20,000,000.00 - 49,999,999.99 | 0.4% | 0.1% | 410 | 0.00034% | 10.2% | 3.2% | 8.3% | 2.6% |
| 50,000,000.00 and over | 0.0% | 0.0% | 96 | 0.00006% | 0.0% | 0.0% | 0.0% | 0.0% |
| 2004 AGI Distribution | | | | | | | | |
| \$500,000 under \$1,000,000 | 46.7% | 29.5% | 433145 | 0.412% | 1.1% | 0.7% | 1.5% | 1.5% |
| \$1,000,000 under \$1,500,000 | 16.9% | 11.3% | 103964 | 0.139% | 1.6% | 1.1% | 2.2% | 2.9% |
| \$1,500,000 under \$2,000,000 | 8.9% | 9.5% | 45104 | 0.076% | 2.0% | 2.1% | 2.7% | 4.3% |
| \$2,000,000 under \$5,000,000 | 17.2% | 32.3% | 65548 | 0.050% | 2.6% | 4.9% | 3.0% | 5.5% |
| \$5,000,000 under \$10,000,000 | 6.4% | 14.4% | 15835 | 0.013% | 4.1% | 9.1% | 4.1% | 6.8% |
| \$10,000,000 or more | 4.0% | 3.1% | 9677 | 0.005% | 4.1% | 3.2% | 4.1% | 3.2% |
| 2001 AGI Distribution | | | | | | | | |
| 500,000.00 — 999,999.99 | 46.7% | 29.5% | 360461 | 0.405% | 1.3% | 0.8% | 1.8% | 1.8% |
| 1,000,000.00 - 1,499,999.99 | 16.9% | 11.3% | 86337 | 0.142% | 2.0% | 1.3% | 2.7% | 3.6% |
| 1,500,000.00 - 1,999,999.99 | 8.9% | 9.5% | 36575 | 0.079% | 2.4% | 2.6% | 3.4% | 5.5% |
| 2,000,000.00 - 2,499,999.99 | 5.5% | 8.0% | 19379 | 0.052% | 2.8% | 4.1% | 3.9% | 7.0% |
| 2.500.000.00 - 2.999.999.99 | 3.8% | 6.7% | 12119 | 0.038% | 3.1% | 5.5% | 4.2% | 8.0% |
| 3.000.000.00 - 3.499.999.99 | 2.8% | 5.6% | 8031 | 0.029% | 3.4% | 7.0% | 4.6% | 8.8% |
| 3.500.000.00 - 3.999.999.99 | 2.1% | 4.7% | 5394 | 0.023% | 3.9% | 8.7% | 4.9% | 9.2% |
| 4.000.000.00 - 4.499.999.99 | 1.7% | 4.0% | 4266 | 0.019% | 3.9% | 9.3% | 5.1% | 9.3% |
| 4 500 000 00 - 4 999 999 99 | 1.4% | 3 3% | 3131 | 0.016% | 4.3% | 10.6% | 5 3% | 9.3% |
| 5 000 000 00 - 9 999 999 99 | 6.4% | 14 4% | 12275 | 0.014% | 5.2% | 11.7% | 5 4% | 9.1% |
| 1000000000 - 1999999999 | 3 5% | 2.9% | 4429 | 0.005% | 8.0% | 6.6% | 5.4% | 4 5% |
| 2000000000 - 4999999999 | 0.4% | 0.1% | 1912 | 0.002% | 2.0% | 0.7% | 1 7% | |
| 50,000,000.00 and over | 0.0% | 0.0% | 482 | 0.000% | 0.0% | 0.0% | 0.0% | 0.0% |

This table reports the estimated distributions of pay for 10,000 managing alongside the W2 and AGI brackets. Based on industry information, the figures assume that essentially no managing director of a top 10 investment bank earned less than \$500,000 in 2004. Two possible distributions of pay are considered. The first is a pareto distribution with a minimum value of \$500,000, which we truncate at \$22.5 million, as this is approximately the top value observed for any investment banking employee. The second distribution is an exponential distribution, which we censor below at \$500,000. We assume that the pay estimated here shows up in the W-2 forms of the managing directors as this pay is expensed as salary and wages by their firms. The third pair of columns presents the percent of each bracket accounted for by every 10,000 managing directors, and the fourth pair presents the number of individuals earning at least the minimum bracket amount for every 10,000 managing directors.

Table 2c: Securities Industry Capital and Employees Over Time

| | <u>SIA 2004</u> | <u>SIA 1987</u> | <u>IB-BA 1972</u> |
|--|-----------------|-----------------|-------------------|
| Total Number of Employees in top 50 Firms | 389,181 | 217,813 | 80,784 |
| Total Amount of Capital in top 50 Firms (\$ Million) | \$696,087 | \$29,636 | \$2,768 |
| Capital per Employee | 1.789 | 0.136 | 0.034 |
| Capital per Employee (\$2004) | 1.789 | 0.203 | 0.124 |

The table reports the total number of global employees and the total global capital employed at the top 50 U.S. securities firms in 1972, 1987, and 2004.SIA information is from Securities Industry Association Handbook for 1987 and 2004. IB-BA is Investment Banker-Broker Almanac.

| | Money Under Management | Money Under Management | Money Under Management | # Funds | # Funds | # Funds Hedge Fund | Money Under Management | Hedge Fund | Fees Hedge Funds | Fees Hedge Funds |
|------|------------------------------|------------------------------|------------------------------|------------|------------|-----------------------|------------------------------|------------|------------------------|------------------------|
| Year | Hedge Fund | Hedge Fund | Hedge Fund | Hedge Fund | Hedge Fund | No FOF | Hedge Fund | Returns | 2/20 | 2/20 |
| | Hennessee | HFR | TASS | Hennessee | HFR | HFR | Hennessee | Hennessee | Average | Expected |
| | | | | | | | | | Returns | 10% Volatility |
| 1980 | | | | | | | | | | |
| 1981 | | | | | | | | | | |
| 1982 | | | | | | | | | | |
| 1983 | | | | | | | | | | |
| 1984 | | | | | | | | | | |
| 1985 | | | | | | | | | | |
| 1986 | \$20 | | | 100 | | | \$20 | | | |
| 1987 | | | | | | | | 11.99 | \$0.46 | \$0.68 |
| 1988 | | | | | | | | 20.16 | | |
| 1989 | | | | | | | | 24.58 | | |
| 1990 | | \$39 | | | 610 | 530 | | 11.97 | | |
| 1991 | \$35 | \$58 | | 880 | 821 | 694 | \$35 | 25.83 | | |
| 1992 | \$50 | \$96 | | 1,100 | 1,105 | 937 | \$50 | 15.57 | \$0.84 | \$1.12 |
| 1993 | \$99 | \$168 | \$50 | 1,640 | 1,514 | 1,277 | \$99 | 25.69 | \$1.32 | \$1.60 |
| 1994 | \$76 | \$167 | \$57 | 2,080 | 1,945 | 1,654 | \$76 | 0.17 | \$1.98 | \$3.17 |
| 1995 | \$97 | \$186 | \$72 | 2,800 | 2,383 | 2,006 | \$97 | 17.70 | \$1.86 | \$2.43 |
| 1996 | \$130 | \$257 | \$99 | 3,000 | 2,781 | 2,392 | \$130 | 19.07 | \$2.40 | \$3.10 |
| 1997 | \$210 | \$368 | \$145 | 3,200 | 2,990 | 2,564 | \$210 | 18.18 | \$3.19 | \$4.16 |
| 1998 | \$221 | \$375 | \$154 | 3,500 | 3,325 | 2,848 | \$221 | 1.43 | \$4.28 | \$6.72 |
| 1999 | \$324 | \$456 | \$197 | 4,000 | 3,617 | 3,102 | \$324 | 30.77 | \$6.12 | \$7.07 |
| 2000 | \$408 | \$491 | \$209 | 4,800 | 3,873 | 3,335 | \$408 | 8.16 | \$7.14 | \$10.37 |
| 2001 | \$564 | \$599 | \$264 | 5,500 | 4,454 | 3,904 | \$564 | 4.35 | \$8.60 | \$13.06 |
| 2002 | \$592 | \$626 | \$310 | 5,700 | 5,379 | 4,598 | \$592 | -2.89 | \$11.28 | \$18.05 |
| 2003 | \$795 | \$820 | \$489 | 7,000 | 6,297 | 5,065 | \$795 | 18.78 | \$14.62 | \$18.94 |
| 2004 | \$934 | \$973 | \$674 | 8,050 | 7,436 | 5,782 | \$934 | 8.25 | \$17.54 | \$25.44 |
| 2005 | | \$1,105 | \$813 | | 8,661 | 6,665 | | 7.85 | \$20.51 | \$29.89 |

Table 3a: Assets Under Management and Estimated Fees for Hedge Funds

This table reports assets under management at hedge funds and number of hedge funds over time as reported by the Hennessee Group, Hedge Fund Research, and TASS. Hedge fund fees are calculated in two ways, assuming annual management fees of 2% and profit share of 20% using Hennessee Group assets under management. First, hedge fund fees are calculated using the average returns for the year and assuming that all funds earn the average return. Second, hedge fund fees are calculated assuming that fees equal 2% management fee and that the profit share leads to fees of 1.2% per year based on a Black-Scholes calculation with expected volatility of 11% and a risk-free rate of 3%.

| Year | Capital Committed Venture (\$B) | # Funds VC | Capital per Fund (\$ M) | Capital Committed Private Equity (\$B) | # Funds PE | Capital per Fund (\$ M) | Money Under Management VC SevenYear (\$B) | Money Under Management PE SevenYear (\$B) | VC Returns | VC Estimated Fees 2/20 Actual Returns (\$B) | VC Estimated Fees 2/20 Expected 22% Vol. (\$B) | PE Returns | PE Estimated Fees 2/20 Actual Returns | PE Estimated Fees 2/20 Expected 22% Vol. |
|------|--|---------------|-------------------------------|---|---------------|-------------------------------|--|--|---------------|--|---|---------------|---|--|
| 1980 | \$2.1 | 54 | \$38 | \$0.2 | 4 | \$46 | \$2.1 | \$0.2 | | | | | | |
| 1981 | \$1.5 | 75 | \$20 | \$0.4 | 7 | \$50 | \$3.6 | \$0.5 | 20.10 | \$0.05 | \$0.14 | | | |
| 1982 | \$1.7 | 89 | \$20 | \$0.6 | 13 | \$47 | \$5.3 | \$1.1 | 30.50 | \$0.10 | \$0.21 | | | |
| 1983 | \$4.0 | 143 | \$28 | \$1.5 | 18 | \$86 | \$9.3 | \$2.7 | 54.90 | \$0.18 | \$0.37 | 52.50 | \$0.04 | \$0.11 |
| 1984 | \$3.2 | 120 | \$26 | \$3.5 | 24 | \$148 | \$12.4 | \$6.2 | -5.80 | \$0.19 | \$0.50 | -4.40 | \$0.05 | \$0.25 |
| 1985 | \$4.0 | 120 | \$33 | \$3.0 | 22 | \$136 | \$16.4 | \$9.2 | -0.90 | \$0.25 | \$0.66 | 2.90 | \$0.13 | \$0.37 |
| 1986 | \$3.8 | 103 | \$37 | \$5.0 | 34 | \$147 | \$20.2 | \$14.2 | 4.40 | \$0.35 | \$0.81 | 11.70 | \$0.21 | \$0.57 |
| 1987 | \$4.5 | 119 | \$38 | \$16.1 | 48 | \$335 | \$22.6 | \$30.1 | 6.40 | \$0.44 | \$0.91 | 10.00 | \$0.32 | \$1.20 |
| 1988 | \$4.5 | 105 | \$43 | \$12.9 | 62 | \$209 | \$25.7 | \$42.7 | 2.60 | \$0.47 | \$1.03 | 17.70 | \$0.74 | \$1.71 |
| 1989 | \$5.1 | 105 | \$48 | \$12.2 | 83 | \$146 | \$29.0 | \$54.2 | 5.20 | \$0.55 | \$1.16 | 13.70 | \$1.00 | \$2.17 |
| 1990 | \$3.5 | 89 | \$39 | \$9.6 | 72 | \$134 | \$28.5 | \$62.3 | 3.00 | \$0.60 | \$1.14 | -4.30 | \$1.08 | \$2.49 |
| 1991 | \$2.0 | 42 | \$48 | \$7.5 | 34 | \$219 | \$27.4 | \$66.2 | 22.80 | \$0.73 | \$1.10 | 22.20 | \$1.59 | \$2.65 |
| 1992 | \$5.3 | 82 | \$65 | \$12.3 | 64 | \$193 | \$28.7 | \$75.6 | 14.90 | \$0.65 | \$1.15 | 11.50 | \$1.51 | \$3.02 |
| 1993 | \$4.0 | 91 | \$44 | \$17.8 | 88 | \$202 | \$29.0 | \$88.4 | 19.40 | \$0.71 | \$1.16 | 18.70 | \$1.86 | \$3.54 |
| 1994 | \$8.9 | 137 | \$65 | \$25.5 | 117 | \$218 | \$33.3 | \$97.8 | 15.90 | \$0.69 | \$1.33 | 20.70 | \$2.23 | \$3.91 |
| 1995 | \$10.1 | 173 | \$59 | \$32.1 | 124 | \$259 | \$38.9 | \$116.9 | 49.30 | \$1.08 | \$1.56 | 32.20 | \$2.74 | \$4.68 |
| 1996 | \$11.5 | 161 | \$72 | \$37.8 | 128 | \$295 | \$45.4 | \$142.5 | 42.70 | \$1.19 | \$1.81 | 34.80 | \$3.36 | \$5.70 |
| 1997 | \$19.6 | 242 | \$81 | \$51.7 | 154 | \$336 | \$61.5 | \$184.7 | 33.10 | \$1.28 | \$2.46 | 26.80 | \$3.81 | \$7.39 |
| 1998 | \$30.0 | 289 | \$104 | \$79.1 | 206 | \$384 | \$89.5 | \$256.3 | 18.90 | \$1.52 | \$3.58 | 15.60 | \$4.41 | \$10.25 |
| 1999 | \$57.2 | 450 | \$127 | \$71.1 | 188 | \$378 | \$141.5 | \$315.0 | 188.80 | \$6.02 | \$5.66 | 71.30 | \$9.69 | \$12.60 |
| 2000 | \$107.4 | 639 | \$168 | \$86.8 | 193 | \$450 | \$244.9 | \$384.0 | 24.30 | \$3.69 | \$9.79 | 10.60 | \$7.14 | \$15.36 |
| 2001 | \$38.0 | 310 | \$123 | \$71.2 | 169 | \$421 | \$274.0 | \$429.7 | -34.30 | \$4.90 | \$10.96 | -20.60 | \$7.68 | \$17.19 |
| 2002 | \$9.2 | 198 | \$47 | \$47.7 | 166 | \$288 | \$273.0 | \$445.4 | -29.50 | \$5.48 | \$10.92 | -13.10 | \$8.59 | \$17.82 |
| 2003 | \$11.6 | 155 | \$75 | \$40.0 | 138 | \$290 | \$273.1 | \$447.6 | 6.80 | \$5.92 | \$10.92 | 18.20 | \$10.93 | \$17.91 |
| 2004 | \$18.8 | 206 | \$91 | \$65.3 | 177 | \$369 | \$272.3 | \$461.2 | 15.40 | \$6.51 | \$10.89 | 17.20 | \$10.88 | \$18.45 |
| 2005 | \$26.4 | 200 | \$132 | \$130.9 | 228 | \$574 | \$268.7 | \$513.0 | 14.10 | \$6.41 | \$10.75 | 21.40 | \$11.69 | \$20.52 |

Table 3b: Assets Under Management and Estimated Fees for Venture Capital (VC) and Private Equity (PE) Funds

This table reports annual capital commitments to, number of funds raised in, and average annual returns of Venture Capital (VC) and Private Equity (PE) from 1980 to 2005 using Thomson Financial's Venture Economics database. Money under management is calculated as the sum of capital commitments over the last seven years including the current year. Estimated fees are calculated using the money under management at the beginning of the year, average returns for the year, and assuming that all funds earn the average return.

| _ | Alpha Top Hedg | ge Fund Managers (| Global) | Alpha Top Hedge | e Fund Managers (U | .S. Only) |
|------|----------------|--------------------|---------|-----------------|--------------------|-----------|
| Rank | 2003 | 2004 | 2005 | 2003 | 2004 | 2005 |
| 1 | 750 | 1020 | 1500 | 750 | 1020 | 1500 |
| 2 | 510 | 670 | 1400 | 510 | 670 | 1400 |
| 3 | 500 | 550 | 840 | 500 | 550 | 840 |
| 4 | 420 | 450 | 550 | 420 | 450 | 550 |
| 5 | 350 | 420 | 500 | 350 | 420 | 500 |
| 6 | 350 | 305 | 425 | 350 | 305 | 425 |
| 7 | 300 | 300 | 400 | 300 | 300 | 400 |
| 8 | 230 | 240 | 400 | 230 | 240 | 400 |
| 9 | 150 | 225 | 340 | 150 | 225 | 340 |
| 10 | 146 | 205 | 275 | 146 | 205 | 275 |
| 11 | 135 | 195 | 230 | 135 | 195 | 230 |
| 12 | 128 | 180 | 215 | 128 | 180 | 215 |
| 13 | 125 | 153 | 210 | 125 | 153 | 210 |
| 14 | 120 | 125 | 200 | 120 | 125 | 200 |
| 15 | 110 | 125 | 200 | 110 | 125 | 200 |
| 16 | 110 | 125 | 200 | 110 | 125 | 200 |
| 17 | 100 | 120 | 190 | 100 | 120 | 190 |
| 18 | 95 | 115 | 175 | 95 | 115 | 175 |
| 19 | 95 | 115 | 160 | 95 | 115 | 160 |
| 20 | 92 | 110 | 150 | 92 | 110 | 150 |
| 21 | 80 | 110 | 150 | 80 | 110 | 150 |
| 22 | 80 | 110 | 150 | 80 | 110 | 145 |
| 23 | 75 | 102 | 150 | 75 | 102 | |
| 24 | 70 | 100 | 145 | 70 | 100 | |
| 25 | 65 | 100 | 130 | 65 | 100 | |

Table 4a: Top Hedge Fund Incomes in Millions of Dollars

Source: Institutional Investor's estimates of the incomes of the top 25 most highly compensated hedge fund managers from 2003 to 2005. The right panel presents only those hedge fund managers listed as based in the U.S.

| | | Financial Worl | d | | Trader Me | onthly and Alpha | |
|------|------|----------------|------|-----------|-----------|------------------|------|
| | | 1988 | | 1995 | | | |
| Rank | 1988 | in \$2004 | 1995 | in \$2004 | 2003 | 2004 | 2005 |
| 1 | 190 | 283 | 1500 | 1777 | 750 | 1020 | 1500 |
| 2 | 120 | 179 | 350 | 415 | 510 | 670 | 1400 |
| 3 | 110 | 164 | 150 | 178 | 500 | 550 | 840 |
| 4 | 110 | 164 | 115 | 136 | 420 | 450 | 550 |
| 5 | 100 | 149 | 95 | 113 | 350 | 420 | 550 |
| 6 | 88 | 130 | 90 | 107 | 350 | 305 | 500 |
| 7 | 80 | 119 | 76 | 90 | 300 | 300 | 425 |
| 8 | 65 | 97 | 76 | 90 | 275 | 240 | 400 |
| 9 | 55 | 82 | 75 | 89 | 230 | 225 | 400 |
| 10 | 55 | 82 | 70 | 83 | 225 | 205 | 340 |
| 20 | 30 | 45 | 40 | 47 | 100 | 120 | 190 |
| 30 | 25 | 37 | 30 | 36 | 63 | 88 | 125 |
| 40 | 20 | 30 | 25 | 30 | 35 | 63 | 68 |
| 50 | 15 | 22 | 20 | 24 | 25 | 35 | 45 |
| 60 | 15 | 22 | 17 | 20 | 13 | 28 | 35 |
| 70 | 10 | 15 | 14 | 17 | 8 | 23 | 23 |
| 80 | 9 | 13 | 13 | 15 | 8 | 13 | 13 |
| 90 | 8 | 12 | 10 | 12 | 8 | 13 | 13 |
| 100 | 8 | 12 | 9 | 11 | NA | NA | NA |

Table 4b: Top Financial Industry Incomes in Millions of Dollars

Financial World rankings include all financial industry individuals and employees, including private equity and hedge funds. Trader Monthly rankings include traders and hedge fund professionals only, and Alpha rankings are for hedge fund professionals only. Alpha figures are released later and for this reason when there is conflicting information about a given individual's earnings, Alpha numbers are used. Inflation adjustments for the counts of 1988 in \$2004 and 1995 in \$2004 are performed using the GDP deflator.

Table 5a: Assets Under Management at Mutual Funds

| | \$ billions | | | | | | | # of Funds | | | | | | | |
|------|-------------|---------|-------|-------|--------|------|---------|------------|-------|--------|--------|------|-------|--------|-----------------|
| | | | | | | Mon | ey | | | | | | | Money | |
| | Total | Equity | Hybri | d | Bond | Marl | ket | Total | | Equity | Hybrid | Bond | | Market | |
| 1980 |) \$1 | 35 | \$44 | | \$ | 14 | \$76 | | 564 | 288 | | | 170 | 1 | 106 |
| 1981 | \$2 | 41 | \$41 | | \$ | 14 | \$186 | | 665 | 306 | | | 180 | 1 | 179 |
| 1982 | \$2 | 97 | \$54 | | \$2 | 23 | \$220 | | 857 | 340 | 1 | | 199 | 3 | 318 |
| 1983 | \$ \$2 | 93 | \$77 | | \$3 | 37 | \$179 | | 1,026 | 396 | | | 257 | 3 | 373 |
| 1984 | \$3 | 71 | \$80 | \$11 | \$4 | 46 | \$234 | | 1,243 | 459 | | 89 | 270 | 2 | 425 |
| 1985 | 5 \$4 | 95 \$ | 111 | \$18 | \$12 | 23 | \$244 | | 1,528 | 562 | 1 | .03 | 403 | 2 | 460 |
| 1986 | 5 \$7 | 16 \$ | 154 | \$26 | \$24 | 43 | \$292 | | 1,835 | 678 | 1 | 21 | 549 | 2 | 487 |
| 1987 | \$7 | 69 \$ | 175 | \$29 | \$24 | 48 | \$316 | | 2,312 | 824 | 1 | 64 | 781 | 5 | 543 |
| 1988 | \$8 | 09 \$ | 189 | \$26 | \$2 | 56 | \$338 | | 2,737 | 1,006 | 1 | 79 | 942 | e | 510 |
| 1989 |) \$9 | 81 \$ | 245 | \$36 | \$2 | 72 | \$428 | | 2,935 | 1,069 | 1 | 89 | 1,004 | e | 573 |
| 1990 | \$1,0 | 65 \$ | 239 | \$36 | \$29 | 91 | \$498 | | 3,079 | 1,099 | 1 | .93 | 1,046 | 7 | 741 |
| 1991 | \$1,3 | 93 \$ | 405 | \$52 | \$39 | 94 | \$542 | | 3,403 | 1,191 | 2 | 212 | 1,180 | 8 | 320 |
| 1992 | 2 \$1,6 | 43 \$ | 514 | \$78 | \$50 |)4 | \$546 | | 3,824 | 1,325 | 2 | 35 | 1,400 | 8 | 364 |
| 1993 | \$2,0 | 70 \$ | 741 | \$145 | \$6 | 19 | \$565 | | 4,534 | 1,586 | 2 | 282 | 1,746 | ç |) 20 |
| 1994 | \$2,1 | 55 \$ | 853 | \$164 | \$52 | 27 | \$611 | | 5,325 | 1,886 | 3 | 61 | 2,115 | ç | 963 |
| 1995 | \$2,8 | 11 \$1, | 249 | \$210 | \$59 | 99 | \$753 | | 5,725 | 2,139 | 4 | 12 | 2,177 | ç |) 97 |
| 1996 | 5 \$3,5 | 26 \$1, | 726 | \$253 | \$64 | 45 | \$902 | | 6,248 | 2,570 | 4 | 66 | 2,224 | ç | 988 |
| 1997 | \$4,4 | 68 \$2, | 368 | \$317 | \$72 | 24 | \$1,059 | | 6,684 | 2,951 | 5 | 01 | 2,219 | 1,0 |)13 |
| 1998 | \$5,5 | 25 \$2, | 978 | \$365 | \$83 | 31 | \$1,352 | | 7,314 | 3,512 | 5 | 526 | 2,250 | 1,0 |)26 |
| 1999 | \$6,8 | 46 \$4, | 042 | \$379 | \$8 | 12 | \$1,613 | | 7,791 | 3,952 | 5 | 32 | 2,262 | 1,0 |)45 |
| 2000 |) \$6,9 | 65 \$3, | 962 | \$346 | \$8 | 11 | \$1,845 | | 8,155 | 4,385 | 5 | 523 | 2,208 | 1,0 |)39 |
| 2001 | \$6,9 | 75 \$3, | 418 | \$346 | \$92 | 25 | \$2,285 | | 8,305 | 4,716 | 4 | 83 | 2,091 | 1,0 |)15 |
| 2002 | \$6,3 | 90 \$2, | 662 | \$325 | \$1,13 | 30 | \$2,272 | | 8,244 | 4,747 | 4 | 73 | 2,035 | ç | 989 |
| 2003 | \$ \$7,4 | 14 \$3, | 684 | \$430 | \$1,24 | 48 | \$2,052 | | 8,126 | 4,599 | 5 | 608 | 2,045 | 9 |) 74 |
| 2004 | \$8,1 | 07 \$4, | 384 | \$519 | \$1,29 | 90 | \$1,913 | | 8,041 | 4,547 | 5 | 510 | 2,041 | ç | 943 |
| 2005 | 5 \$8.9 | 05 \$4. | 940 | \$567 | \$1.3 | 57 | \$2.041 | | 7.977 | 4,586 | 5 | 505 | 2.015 | 8 | 371 |

This table reports assets under management and number of funds for equity, hybrid and bond mutual funds from 1980 to 2005. The source is the 2006 Investment Company Institute Handbook.

Table 5b: Fees at Mutual Funds

| | \$ billions | | Fees | Fees | | | | Fees | Fees | Fees |
|------|-------------|-----------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | Total | Preferred | Asset | Asset | Fees | Fees | Fees | \$ Billions | \$ Billions | \$ Billions |
| | Assets | Common | Weighted % | Weighted % | \$ Billions | \$ Billions | \$ Billions | in \$2005 | in \$2005 | in \$2005 |
| Year | | | Stock Funds | Bond Funds | Stock Funds | Bond Funds | Total | Stock Funds | Bond Funds | Total |
| 1980 | | | 2.32% | 2.05% | \$1.0 | \$0.3 | \$1.3 | \$2.1 | \$0.6 | \$2.7 |
| 1981 | | | | | | | | | | |
| 1982 | | | | | | | | | | |
| 1983 | | | | | | | | | | |
| 1984 | \$137 | \$83 | | | | | | | | |
| 1985 | \$252 | \$114 | 2.19% | 1.91% | \$2.4 | \$2.7 | \$5.1 | \$3.9 | \$4.3 | \$8.2 |
| 1986 | \$424 | \$161 | | | | | | | | |
| 1987 | \$453 | \$182 | | | | | | | | |
| 1988 | \$471 | \$179 | | | | | | | | |
| 1989 | \$553 | \$245 | | | | | | | | |
| 1990 | \$567 | \$216 | 1.98% | 1.89% | \$4.7 | \$6.2 | \$10.9 | \$6.5 | \$8.5 | \$15.0 |
| 1991 | \$851 | \$381 | | | | | | | | |
| 1992 | \$1,096 | \$485 | | | | | | | | |
| 1993 | \$1,505 | \$712 | | | | | | | | |
| 1994 | \$1,544 | \$824 | | | | | | | | |
| 1995 | \$2,058 | \$1,215 | 1.55% | 1.45% | \$19.4 | \$11.7 | \$31.1 | \$23.6 | \$14.3 | \$37.9 |
| 1996 | \$2,624 | \$1,718 | | | | | | | | |
| 1997 | \$3,409 | \$2,358 | | | | | | | | |
| 1998 | \$4,174 | \$3,004 | | | | | | | | |
| 1999 | \$5,233 | \$4,060 | | | | | | | | |
| 2000 | \$5,119 | \$3,910 | 1.28% | 1.03% | \$50.7 | \$11.9 | \$62.6 | \$56.9 | \$13.4 | \$70.2 |
| 2001 | \$4,690 | \$3,424 | 1.24% | 0.97% | \$42.4 | \$12.3 | \$54.7 | \$46.4 | \$13.5 | \$59.9 |
| 2002 | \$4,118 | \$2,688 | 1.24% | 0.93% | \$33.0 | \$13.5 | \$46.6 | \$35.5 | \$14.6 | \$50.1 |
| 2003 | \$5,362 | \$3,760 | 1.22% | 0.94% | \$44.9 | \$15.8 | \$60.7 | \$47.4 | \$16.6 | \$64.1 |
| 2004 | \$6,194 | \$4,490 | 1.17% | 0.92% | \$51.3 | \$16.6 | \$67.9 | \$52.7 | \$17.1 | \$69.8 |
| 2005 | \$6,865 | \$5,054 | 1.13% | 0.90% | \$55.8 | \$17.3 | \$73.1 | \$55.8 | \$17.3 | \$73.1 |

This table reports fees as a percentage of assets under management, dollars of fees, and dollars of fees in 2004 dollars using the GDP implicit price deflator for bond and equity mutual funds from 1980 to 2005. Fees include loads and sales charges. The source is the 2006 Investment Company Institute Handbook.

Table 6a: Statistics for Laywers at Top Firms

| | | | | 1984 Top 50 still | | | |
|---|-----------------------|-----------------------|-----------------------|--------------------|------------------------|------------------------|------------------------|
| | <u>Top 50 in 1984</u> | <u>Top 50 in 1994</u> | <u>Top 50 in 2004</u> | in Top 100 in 2004 | <u>Top 100 in 1994</u> | <u>Top 100 in 2004</u> | <u>Top 200 in 2004</u> |
| Revenues (\$ millions) per firm | \$66.4 | \$209.5 | \$644.6 | \$611.9 | \$153.1 | \$460.4 | \$297.6 |
| | \$61.5 | \$174.0 | \$573.0 | \$503.5 | \$124.5 | \$398.5 | \$199.5 |
| Revenues (\$ millions) per firm in 2004\$ | \$106.8 | \$251.2 | \$644.6 | \$611.9 | \$183.6 | \$460.4 | \$297.6 |
| | \$99.0 | \$208.6 | \$573.0 | \$503.5 | \$149.3 | \$398.5 | \$199.5 |
| Lawyers per firm | 258 | 469 | 889 | 830 | 371 | 682 | 471 |
| | 230 | 401 | 808 | 661 | 330 | 597 | 361 |
| Total number of lawyers all firms | 13,150 | 23,463 | 44,473 | 37,329 | 37,098 | 68,186 | 94,214 |
| Equity partners per firm | 90 | 155 | 221 | 203 | 130 | 179 | 134 |
| | 75 | 136 | 205 | 168 | 112 | 152 | 116 |
| Total number of equity partners all firms | 4,603 | 7,774 | 11,034 | 9,144 | 12,961 | 17,861 | 26,755 |
| Profits per Equity Partner (\$ millions) | \$0.309 | \$0.531 | \$1.260 | \$1.339 | \$0.450 | \$1.014 | \$0.828 |
| | \$0.265 | \$0.460 | \$1.075 | \$1.116 | \$0.398 | \$0.855 | \$0.665 |
| Top 0.5% in AGI | \$0.160 | \$0.276 | \$0.487 | \$0.487 | \$0.276 | \$0.487 | \$0.487 |
| Top 0.1% in AGI | \$0.418 | \$0.712 | \$1.410 | \$1.410 | \$0.712 | \$1.410 | \$1.410 |
| Profits per Equity Partner in 2004 \$ (\$ millions) | \$0.498 | \$0.636 | \$1.260 | \$1.339 | \$0.540 | \$1.014 | \$0.828 |
| • • • • • • • • • • • • | \$0.427 | \$0.552 | \$1.075 | \$1.116 | \$0.477 | \$0.855 | \$0.665 |
| Number of firms | 51 | 50 | 50 | 45 | 100 | 100 | 200 |

This table reports revenues, lawyers, equity partners and profits per partner for law firms from the American Lawyer magazine, AmLaw top law firms for calendar years 1984, 1994, and 2004. In each cell, average is reported above medians. When converted, 1984 and 1994 dollars are converted into 2004 dollars using the GDP Implicit Price Deflator. In 1984, we assume that all partners are equity partners, so profits per equity partners. The median firm had no non-equity partners. For 1994, we report the number of equity partners and profits per all partners. This sligtly understates true profits per equity partner. In 2004, ALM distinguished between profits per equity and total partners.

Table 6b: Top Law Firm Equity Partners and AGI

| | | | | | Estimated A | Am Law 100 | Estimated A | Am Law 200 | Estimated A | Am Law 50 |
|------|-------------------|----------------|----------------------|---------|------------------------------|-------------------------------|-------------------------|-------------------------------|------------------------------|-------------------------------|
| | Bottom of Bracket | Top of Bracket | Number in Bracket | Bracket | Number of Equity Partners | Share of Bracket and Above | Number of Executives | Share of Bracket and Above | Number of Equity Partners | Share of Bracket and Above |
| 2004 | | | | | | | | | | |
| | \$487,171 | \$1,409,886 | 719,910 | >99.5 | 14,189 | 1.97% | 18,353 | 2.55% | 9,841 | 1.37% |
| | \$1,409,886 | | 143,982 | >99.9 | 3,116 | 2.16% | 3,421 | 2.38% | 2,668 | 1.85% |
| 1994 | | | | | | | | | | |
| | \$276,439 | \$712,257 | 623,580 | >99.5 | 8,770 | 1.41% | | | 5,403 | 0.87% |
| | \$712,257 | | 124,716 | >99.9 | 1,648 | 1.32% | | | 1,224 | 0.98% |
| 1984 | | | | | | | | | | |
| | \$159,958 | \$417,846 | 534,355 | >99.5 | | | | | 2,671 | 0.50% |
| | \$417,846 | | 106,871 | >99.9 | | | | | 1,132 | 1.06% |

This table estimates the number of equity partners at the Am Law top law firms in the top 0.5% and 0.1% AGI brackets in 1984, 1994, and 2004. For each law firm, the estimates that 1/3 of the partners earn more than the average while 2/3 of the partners earn less than the average. The estimates assume that the most highly paid partner earns twice the average while the least highly paid partner earns half the average.

Table 7a: Professional Athletes and W2 Income

| | Number of W2s | Percentiles | Basaball | Football | Baskathall | A 11 | Share of Bracket | Share of Bracket |
|-------------------------------|---------------|-------------|----------|----------|------------|------|------------------|------------------|
| 2004 | Number of w28 | Fercentiles | Baseball | Fotball | DasketUall | All | Shale of Blacket | and Above |
| 2004 500.000.00 000.000.00 | 171029 | 0.16160/ | 124 | 171 | 00 | 696 | 0.4% | 0.80/ |
| 1,000,000,000 = 1,400,000,00 | 24058 | 0.1010% | 124 | 474 | 00 40 | 260 | 0.4% | 0.8% |
| 1,000,000.00 - 1,499,999.99 | 54058 | 0.0472% | 40 | 172 | 49 | 209 | 0.8% | 1.9% |
| 1,500,000.00 = 1,999,999.99 | 15252 | 0.0244% | 40 | 88 | 37 | 105 | 1.2% | 2.9% |
| 2,000,000.00 - 2,499,999.99 | 6/81 | 0.0155% | 32 | 74 | 22 | 128 | 1.9% | 3.8% |
| 2,500,000.00 — 2,999,999.99 | 4015 | 0.0110% | 33 | 70 | 23 | 126 | 3.1% | 4.6% |
| 3,000,000.00 — 3,499,999.99 | 2613 | 0.0083% | 29 | 37 | 15 | 81 | 3.1% | 5.1% |
| 3,500,000.00 — 3,999,999.99 | 1817 | 0.0065% | 23 | 37 | 12 | 72 | 4.0% | 5.6% |
| 4,000,000.00 — 4,499,999.99 | 1304 | 0.0053% | 19 | 28 | 13 | 60 | 4.6% | 6.0% |
| 4,500,000.00 — 4,999,999.99 | 969 | 0.0045% | 8 | 23 | 17 | 48 | 5.0% | 6.3% |
| 5,000,000.00 — 9,999,999.99 | 3860 | 0.0038% | 99 | 90 | 74 | 263 | 6.8% | 6.5% |
| 10,000,000.00 — 19,999,999.99 | 1319 | 0.0012% | 40 | 20 | 41 | 101 | 7.7% | 5.8% |
| 20,000,000.00 — 49,999,999.99 | 410 | 0.0003% | 2 | 1 | 2 | 5 | 1.2% | 1.0% |
| 50,000,000.00 and over | 96 | 0.0001% | 0 | 0 | 0 | 0 | 0.0% | 0.0% |
| 1995 | | | | | | | | |
| 500,000.00 — 999,999.99 | 68483 | 0.0677% | 107 | 311 | 76 | 494 | 0.7% | 1.4% |
| 1,000,000.00 - 1,499,999.99 | 12141 | 0.0166% | 38 | 160 | 60 | 258 | 2.1% | 3.4% |
| 1,500,000.00 - 1,999,999.99 | 4142 | 0.0076% | 30 | 80 | 40 | 150 | 3.6% | 5.0% |
| 2,000,000.00 - 2,499,999.99 | 1990 | 0.0045% | 25 | 36 | 34 | 95 | 4.8% | 5.9% |
| 2,500,000.00 - 2,999,999.99 | 1223 | 0.0030% | 19 | 29 | 36 | 84 | 6.9% | 6.4% |
| 3,000,000.00 — 3,499,999.99 | 749 | 0.0021% | 24 | 9 | 18 | 51 | 6.8% | 6.3% |
| 3,500,000.00 — 3,999,999.99 | 493 | 0.0016% | 20 | 5 | 9 | 34 | 6.9% | 6.1% |
| 4,000,000.00 - 4,499,999.99 | 331 | 0.0012% | 20 | 2 | 8 | 30 | 9.1% | 5.8% |
| 4.500.000.00 - 4.999.999.99 | 260 | 0.0009% | 24 | 1 | 1 | 26 | 10.0% | 5.0% |
| 5.000.000.00 - 9.999.999.99 | 801 | 0.0008% | 34 | 0 | 3 | 37 | 4.6% | 3.7% |
| 10.000.000.00 — 19.999.999.99 | 164 | 0.0002% | 0 | 0 | 0 | 0 | 0.0% | 0.0% |
| 20,000,000.00 and over | 45 | 0.00003% | Ū | 0 | 0 | 0 | 0.0% | 0.0% |

This table describes the extent to which those professional athletes are represented in the top end of the W-2 distribution for 1995 and 2004. Baseball compensation information is obtained from the "Business of Baseball" website and from USA Today for 2005. Basketball and football compensation information are obtained from Professor Rodney Fort of Washington State University.

Table 7b: Professional Athletes and AGI

| | | | | | | | | Share of Bracket |
|-------------------------------|-------------------|-------------|----------|----------|------------|-----|------------------|------------------|
| | Number of Returns | Percentiles | Baseball | Football | Basketball | All | Share of Bracket | and Above |
| 2004 | | | | | | | | |
| 500,000.00 — 999,999.99 | 433145 | 0.4911% | 124 | 474 | 88 | 686 | 0.2% | 0.3% |
| 1,000,000.00 — 1,499,999.99 | 103964 | 0.1752% | 48 | 172 | 49 | 269 | 0.3% | 0.5% |
| 1,500,000.00 — 1,999,999.99 | 45104 | 0.0993% | 40 | 88 | 37 | 165 | 0.4% | 0.8% |
| 2,000,000.00 — 4,999,999.99 | 65548 | 0.0664% | 144 | 269 | 102 | 515 | 0.8% | 1.0% |
| 5,000,000.00 — 9,999,999.99 | 15835 | 0.0186% | 99 | 90 | 74 | 263 | 1.7% | 1.4% |
| 10,000,000.00 - 19,999,999.99 | 7283 | 0.0071% | 40 | 20 | 41 | 101 | 1.4% | 1.1% |
| 20,000,000.00 - 49,999,999.99 | 1912 | 0.0017% | 2 | 1 | 2 | 5 | 0.3% | 0.2% |
| 50,000,000.00 and over** | 482 | 0.0004% | 0 | 0 | 0 | 0 | 0.0% | 0.0% |
| 1995 | | | | | | | | |
| 500,000.00 — 999,999.99 | 181670 | 0.2134% | 107 | 311 | 76 | 494 | 0.3% | 0.5% |
| 1,000,000.00 — 1,499,999.99 | 40598 | 0.0693% | 38 | 160 | 60 | 258 | 0.6% | 0.9% |
| 1,500,000.00 — 1,999,999.99 | 16518 | 0.0371% | 30 | 80 | 40 | 150 | 0.9% | 1.1% |
| 2,000,000.00 — 2,499,999.99 | 8685 | 0.0240% | 25 | 36 | 34 | 95 | 1.1% | 1.2% |
| 2,500,000.00 — 2,999,999.99 | 5267 | 0.0171% | 19 | 29 | 36 | 84 | 1.6% | 1.2% |
| 3,000,000.00 — 3,499,999.99 | 3476 | 0.0129% | 24 | 9 | 18 | 51 | 1.5% | 1.1% |
| 3,500,000.00 — 3,999,999.99 | 2480 | 0.0101% | 20 | 5 | 9 | 34 | 1.4% | 1.0% |
| 4,000,000.00 — 4,499,999.99 | 1761 | 0.0082% | 20 | 2 | 8 | 30 | 1.7% | 0.9% |
| 4,500,000.00 — 4,999,999.99 | 1302 | 0.0068% | 24 | 1 | 1 | 26 | 2.0% | 0.7% |
| 5,000,000.00 — 9,999,999.99 | 4809 | 0.0057% | 34 | 0 | 3 | 37 | 0.8% | 0.5% |
| 10,000,000.00 - 19,999,999.99 | 1718 | 0.0019% | 0 | 0 | 0 | 0 | 0.0% | 0.0% |
| 20,000,000.00 and over | 691 | 0.0005% | 0 | 0 | 0 | 0 | 0.0% | 0.0% |

This table describes the extent to which those professional athletes are represented in the top end of the AGI distribution for 1995 and 2004. Baseball compensation information is obtained from the "Business of Baseball" website and from USA Today for 2005. We obtain basketball and football compensation information from Professor Rodney Fort of Washington State University. These figures understate AGI because they only include income earned from the athlete's team and, therefore, do not include any income from endorsements and other sources.

* Number of families in this range are based on the 2004 AGI distribution for \$10 million and over, minus the number of families in the higher ranges from the 2001 detailed AGI distribution, the latest year for which figures are available at this level of detail.

** Numbers of families in these ranges are from the 2001 detailed AGI distribution, the latest year for which figures are available at this level of detail.

Table 8a: Top AGI Income Quantiles and Earnings of Top Individuals in Different Categories in 2004

| | <u>in top 0.5%</u> | <u>in top 0.1%</u> | <u>in top 0.01%</u> | <u>in top 0.001%</u> | <u>in top 0.0001%</u> |
|--|--------------------|--------------------|---------------------|----------------------|-----------------------|
| Total Tax Units it Overall | 719,910 | 143,982 | 14,398 | 1,440 | 144 |
| AGI Threshold | \$487,171 | \$1,409,886 | \$7,166,178 | \$28,100,000 | \$101,000,000 |
| Non-Financial Top Executives in ExecuComp | 6,242 | 3,389 | 594 | 81 | 3 |
| Non-Financial Top Executives Non-ExecuComp (Estimated) | <u>9,182</u> | 3,625 | 417 | <u>25</u> | <u>0</u> |
| Total Main Street | 15,424 | 7,014 | 1,011 | 106 | 3 |
| Financial Top Executives Total (Estimated) | 2,218 | 1,086 | 137 | 21 | 0 |
| Investment Bankers | 10,000 | 6,120 | 820 | 13 | 0 |
| Hedge Fund Investors | 9,000 | 3,000 | >100 | 60 | 26 |
| VC Investors | 6,000 | 1,200 | | | |
| PE Investors | <u>5,400</u> | 2,160 | | | |
| Total Wall Street | 32,618 | 13,566 | | | |
| Am Law 100 Law Partners | 14,189 | <u>3,116</u> | | | |
| Total Wall Street + Law Partners | 46,807 | 16,682 | | | |
| Professional Athletes | 2,009 | 1,075 | 204 | 5 | 0 |
| Top Celebrities | >100 | 100 | 67 | 32 | 3 |
| Total Estimated in Our Sample | 64,340 | 24,871 | 2,339 | 237 | 32 |
| Total in our Sample as % of Bracket | 8.94% | 17.27% | 16.25% | 16.46% | 22.22% |

This table uses the ExecuComp data and our estimates of the non-ExecuComp companies to populate the top brackets for executives of non-financial and financial companies. It uses 2004 AGI brackets for top 0.5%, 0.1% and 0.01%, and it uses the 2001 AGI cutoff for top 0.001 and 0.0001% brackets due to data availability. It assumes the exponential-based estimates of the distribution of investment banker income. For hedge fund investors, the figures in the table assume an average compensation of 3.2% of assets under management; that all 9,000 have AGI above \$0.5 million (top 0.5%); and that 1/3 or 3,000 have AGI above \$1.4 million (top 0.1%). For the very top end of the hedge fund distribution, the figures rely on the numbers in Tables 4a and 4b, which are based on Trader Monthly and the II Alpha 25. For VC investors, we assume an average compensation of 4.0% of assets under management; that all 6,000 partners have AGI above \$0.5 million; and that 1/5 or 1,200 have AGI above \$1.4 million. For PE investors, under the same 4.0% assumption, we assume that all 5,400 have AGI above \$0.5 million and 2/5 or 2,160 have AGI above \$1.4 million. For VC and PE, we do not try to make any assumptions for incomes above the top 0.01%. We use the distributions calculated earlier for law partners and professional athletes.

Table 8b: Top AGI Income Quantiles and Earnings of Top Individuals Across Time

| | | | | Execucomp | Executives | | | | |
|---------------|--|---------------------|-------------------------------------|---------------------------------|-------------------------------------|---------------------------------|--------------------|--------------------------|--------------------------|
| Year | Value greater than or equal to (\$ millions) | Total Households | Non-Financial Executives TDC2 | Financial Executives TDC2 | Non-Financial Executives TDC1 | Financial Executives TDC1 | Financial World | Hedge Fund and Trader | Professional Athletes |
| T 010/ | | | | | | | | | |
| 10p.01% | 2.1 | 11 710 | 202 | 66 | 200 | 12 | >> 100 | | 76 |
| 1992 | 3.1 | 11,710 | 293 | 00 70 | 200 | 43 | >>100 | | /0 |
| 1993 | 3.0 | 11,079 | 204 | 70 | 290 125 | 01 | >>100 | | 119 |
| 1994 | 3.1 | 12,171 | 304 | 00 78 | 433 | 93 | >>100 | | 133 |
| 2003 | 5.5 | 12,403 | 524 | /0 | 524 | 93 | >>100 | >>100 | 254 |
| 2003 | 6.2 | 13,884 | 524 714 | 110 | 524 | 100 | | >>100 | 254 |
| 2004 | 6.2 | 13,884 | 714 | 100 | 562 | 99 | | >>100 | 200 |
| 2005 | 0.2 | 15,004 | 740 | 100 | 502 |)2 | | >>100 | 200 |
| Top .001% | | | | | | | | | |
| 1992 | 13.3 | 1,171 | 35 | 3 | 12 | 1 | 49 | | 0 |
| 1993 | 12.5 | 1,188 | 25 | 9 | 11 | 9 | 101 | | 0 |
| 1994 | 13.2 | 1,217 | 23 | 7 | 32 | 6 | 41 | | 0 |
| 1995 | 14.6 | 1,246 | 25 | 5 | 29 | 6 | 67 | | 0 |
| 2003 | 28.1 | 1,388 | 46 | 16 | 16 | 10 | | 43 | 0 |
| 2004 | 28.1 | 1,388 | 81 | 19 | 25 | 9 | | 57 | 1 |
| 2005 | 28.1 | 1,388 | 89 | 15 | 31 | 13 | | 60 | 0 |
| | | | | | | | | | |
| Top .0001% | | | | | | | | | |
| 1992 | 46.8 | 117 | 2 | 1 | 0 | 0 | 7 | | 0 |
| 1993 | 41.5 | 119 | 1 | 1 | 0 | 1 | 20 | | 0 |
| 1994 | 45.8 | 122 | 1 | 0 | 1 | 0 | 4 | | 0 |
| 1995 | 46.9 | 125 | 2 | 2 | 1 | 2 | 18 | | 0 |
| 2003 | 101.0 | 139 | 3 | 1 | 1 | 0 | | 19 | 0 |
| 2004 | 101.0 | 139 | 3 | 0 | 1 | 0 | | 25 | 0 |
| 2005 | 101.0 | 139 | 6 | 3 | 1 | 0 | | 32 | 0 |
| Top 00001% | | | | | | | | | |
| 1992 | 266.9 | 12 | 0 | 0 | 0 | 0 | 1 | | 0 |
| 1993 | 199.7 | 12 | 1 | 0 | 0 | 0 | 5 | | Ő |
| 1994 | 166.3 | 12 | 0 | 0 | 0 | 0 | 1 | | Ő |
| 1995 | 145 7 | 12 | 0 | 0 | 0 | 0 | 3 | | Ő |
| 2003 | 241.1 | 14 | 0 | 0 | 0 | 0 | 5 | 8 | 0 |
| 2003 | 241.1 | 14 | 0 | 0 | 0 | 0 | | 7 | õ |
| 2005 | 241.1 | 14 | 2 | 1 | 1 | 0 | | 11 | 0 |

This table shows counts of executives, ehdge fund individuals, and athletes in top AGI brackets over time. For years later than 2001, we use 2001 AGI brackets for reasons described previously. See Table 1a for description of executive data, Tables 4a and 4b for description of hedge fund data, and Tables 7a and 7b for description of athlete data.

Table 8c: Dollars Earned over time by various sectors (in \$billions)

| | | 1994 | 1984 | | |
|--|--------|-----------|-----------|--------|-------|
| | 2004 | in \$2004 | in \$2004 | 1994 | 1984 |
| AGI of Non-Financial Top Executives in ExecuComp | \$22.0 | \$8.4 | | \$6.9 | |
| AGI Financial Top Executives in ExecuComp | \$2.9 | \$1.2 | | \$1.0 | |
| AGI Investment Bankers (10,000) | \$31.4 | | | | |
| Fees to Hedge Fund Investors | \$25.4 | \$3.7 | \$1.1 | \$3.2 | \$0.7 |
| Fees to VC Investors | \$6.5 | \$0.8 | \$0.3 | \$0.7 | \$0.2 |
| Fees to PE Investors | \$10.9 | \$2.7 | \$0.1 | \$2.2 | \$0.1 |
| Profits to Am Law 100 Law Partners | \$18.1 | \$7.1 | \$4.6 | \$5.8 | \$2.8 |
| Fees to Mutual Fund Investors | \$69.8 | \$36.8 | \$8.0 | \$31.1 | \$5.1 |
| AGI to Professional Athletes | \$6.3 | \$3.0 | | \$2.5 | |

The table summarizes the dollar amounts of AGI and fees of the various groups and how they have changed over time. 1984 Hedge funds use 1986 estimates. 1994 Professional Athletes use 1995 estimates. 1994 and 1984 mutual funds use 1995 and 1985 estimates. 1984 Am Law 100 estimated as two times 1984 Am Law 50 Partners.