



Does Top Executive Pay Need to be Reformed?

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Key Questions:


- Is the CEO pay process is broken?
 - Do boards pay CEOs too much or too little?
 - » Is CEO pay a result of “managerial power” not market outcomes?
 - Do boards pay CEOs for performance?
 - Do we need more regulation?
- Did poorly designed top executive compensation at financial firms fuel the financial crisis?
 - Should pay practices be reformed?

My answers:

- Do boards overpay CEOs?
 - Depends on whom you are comparing CEOs to.
- Is CEO pay a result of agency / managerial power?
 - CEO pay is more market and technology driven.
- Do boards pay CEOs for performance?
 - The typical CEO is paid for performance.
- Did poorly designed top executive compensation at financial firms fuel the financial crisis?
 - CEO pay does not appear to have played a significant role, particularly relative to other factors.

What are CEOs paid?

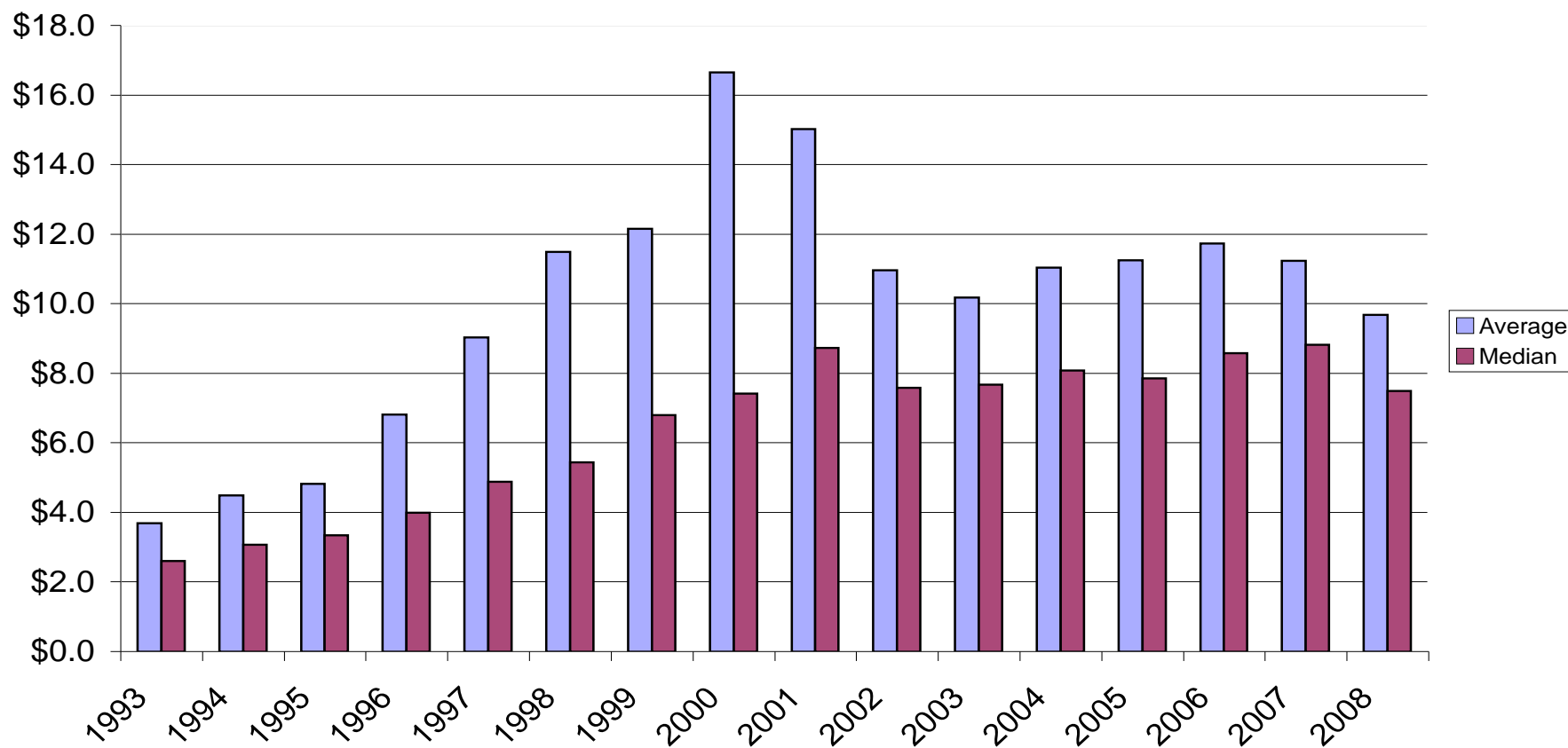
- Two ways to look at pay:
 - Estimated or Ex Ante. What boards give CEOs.
 - » Salary + Bonus + Restricted stock +
Expected value of options (calculated using Black-Scholes).
 - » More relevant for evaluating what boards are doing.
 - Actual or Realized. What CEOs actually get.
 - » Salary + Bonus + Restricted stock +
Value of options exercised / realized.
 - » More relevant for evaluating pay-for-performance.



U.S. S&P 500 CEOs

Real CEO Pay (estimated / ex ante)

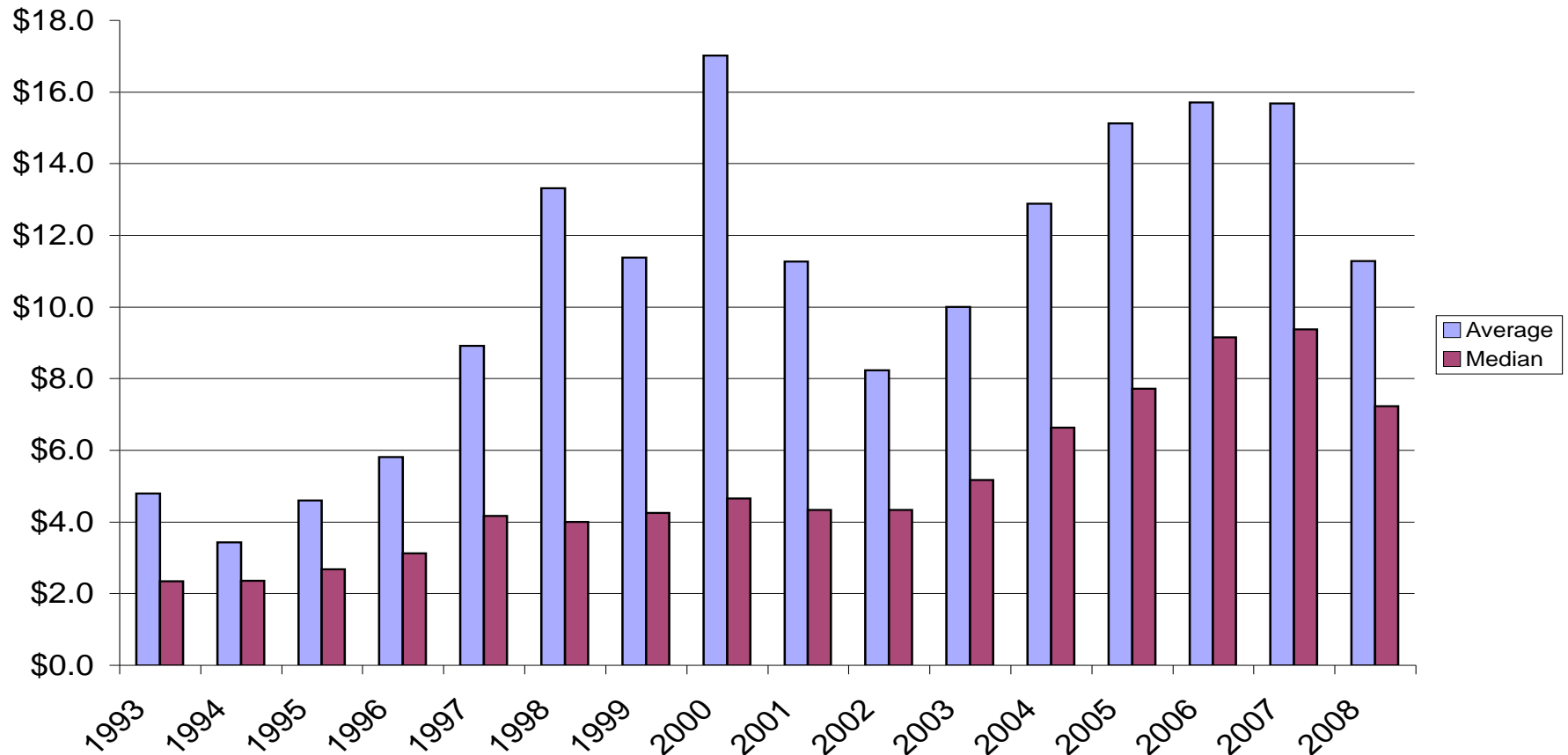
Average & Median Total Pay (estimated or ex ante)
of S&P 500 CEOs from 1993 to 2008 (in millions of 2008 \$)



Source: ExecuComp, Steven Kaplan

Real CEO Pay (actual)

Average & Median Total Pay (Actual) of S&P 500 CEOs
from 1993 to 2008 (in millions of 2008 \$)



Source: ExecuComp, Steven Kaplan

While criticism continues as if CEO pay keeps increasing,
in fact, U.S. CEO pay peaked in 2000 / 2001

- For estimated or ex ante pay (measure of what boards believe they have paid):
 - Average pay in 2008 is lower than it was in 1998.
 - Median pay is about the same in 2008 as in 2000.
 - Pay likely to decline again for 2009.

- For actual / realized pay:
 - Average pay peaked in 2000.
 - Median pay higher, but not comparable because of move to restricted stock instead of options.

Rest of world is catching up / has caught up to U.S.

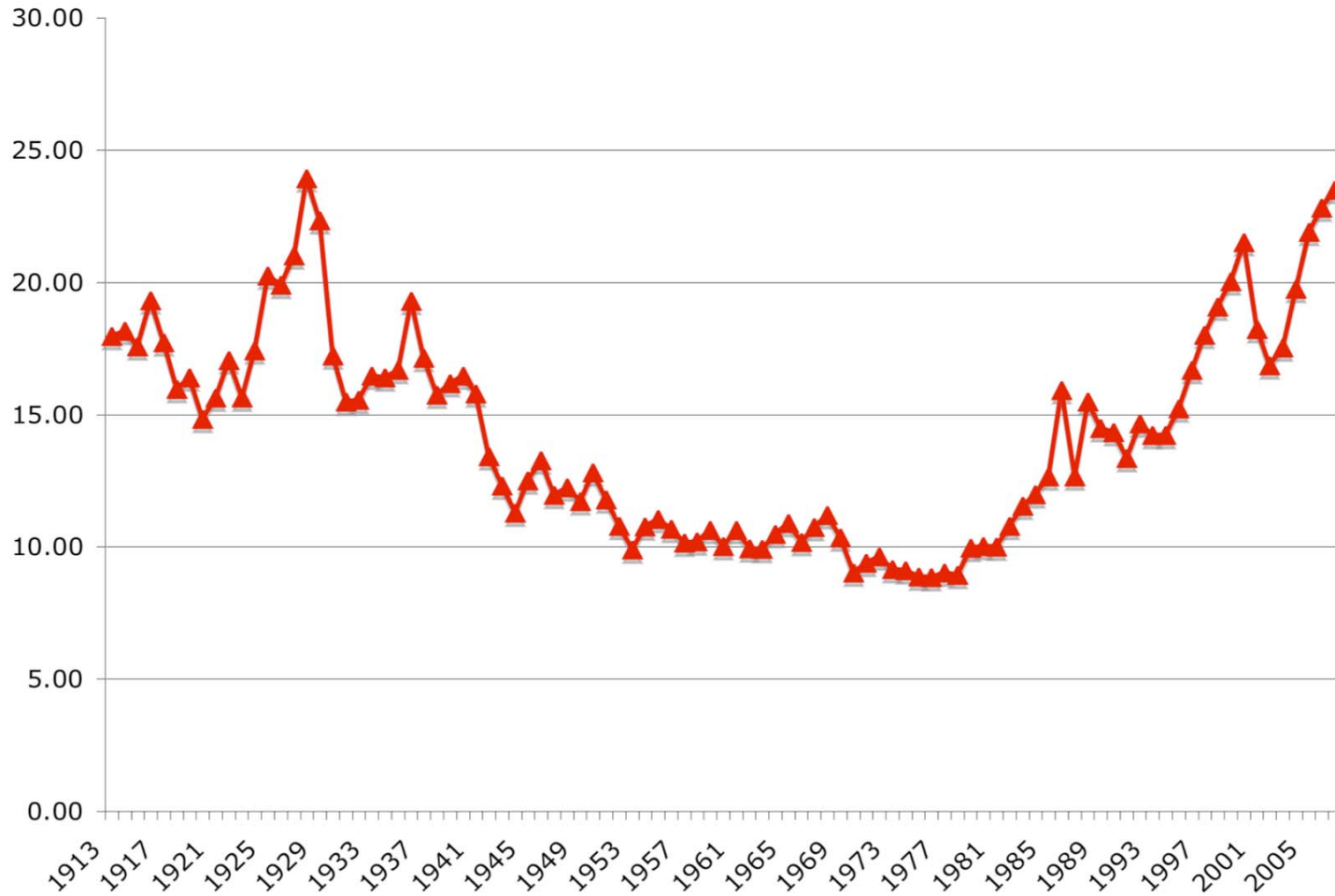
- Fernandes, Murphy et al. (2008) find U.S. CEO pay premium over other countries has declined significantly from 2000 to 2006.
 - Use ex ante measure of pay.
 - Controlling for firm characteristics, premium drops from 187% to 43%.
 - Controlling for pay structure as well, premium drops from 52% to 12%.



In the U.S., CEOs are not the only ones who earn a lot.

- Income inequality at the top has increased substantially in the last 15 to 20 years.

Income Share (AGI) of Top 1% in U.S. from 1913 - 2007



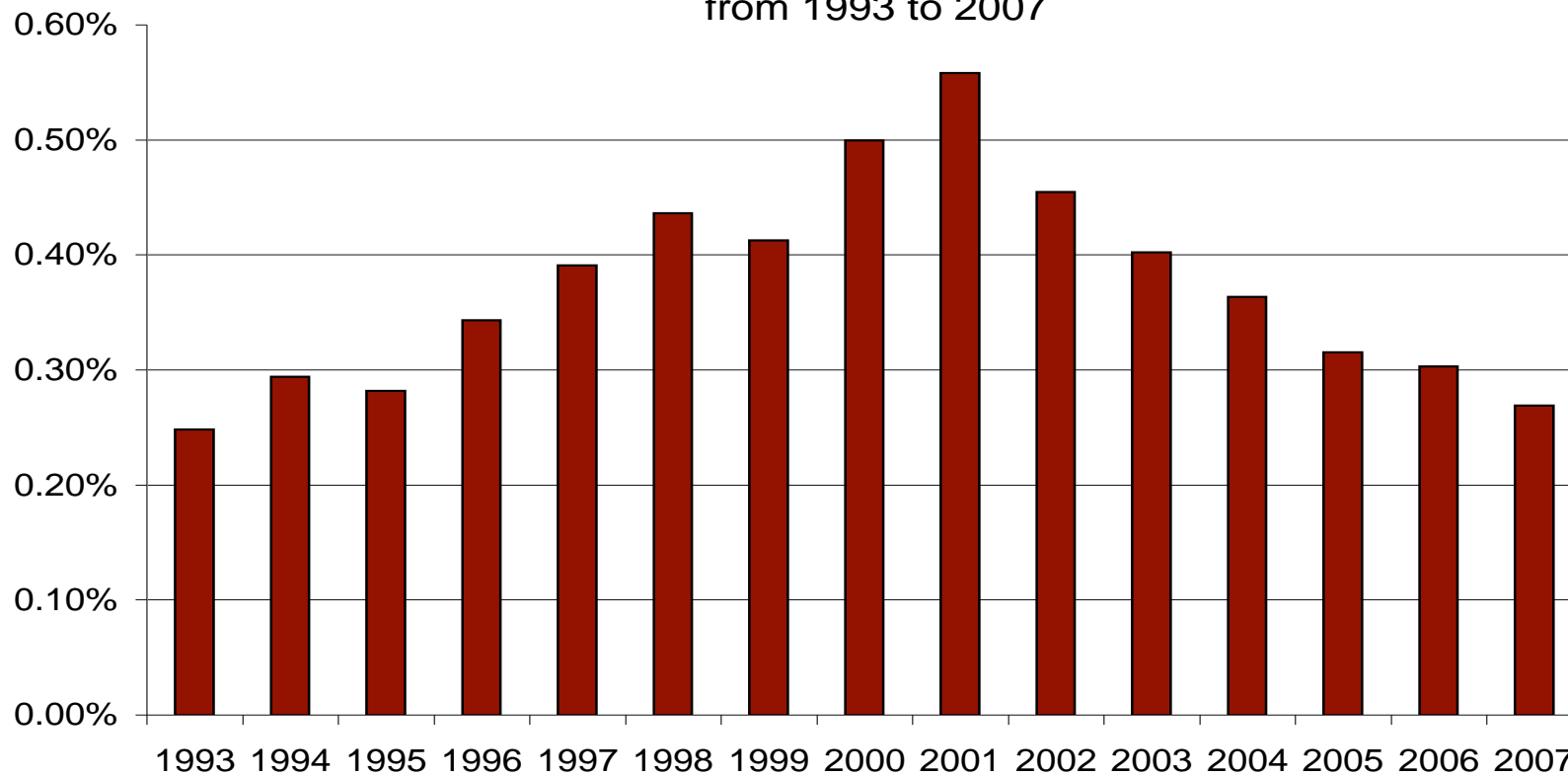
Source: Piketty and Saez (2008)

▲ Share top 1%

- Can measure CEO pay as a fraction of the very top brackets.
 - S&P 500 CEO pay to pay of all income in top 1%.

CEO pay (ex ante) represents small fraction of top 1% AGIs And, that fraction has declined since 1993

Total Pay of S&P 500 CEOs to
Total AGI of Top 1% of Taxpayers
from 1993 to 2007

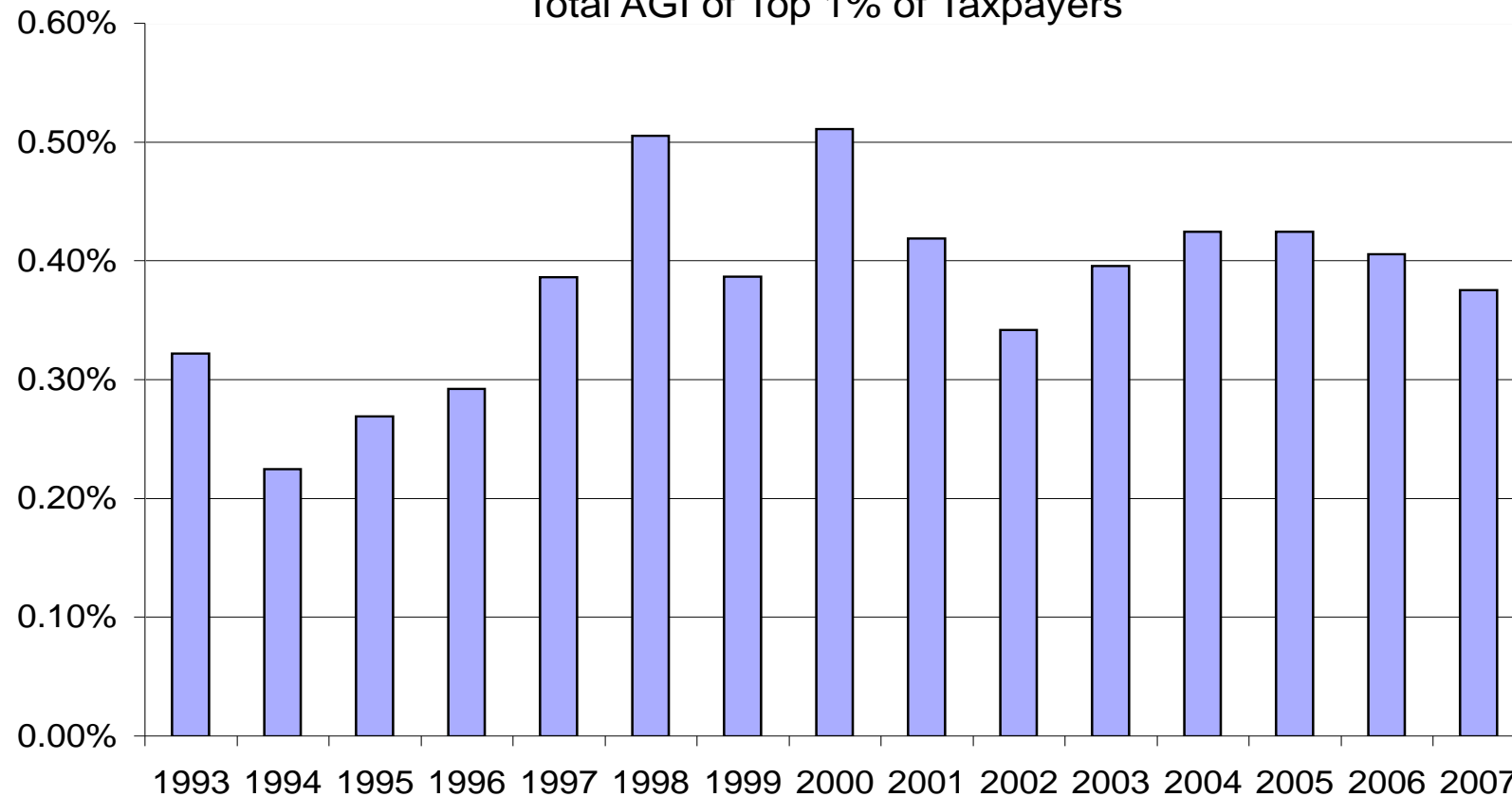


Source: ExecuComp, Saez (2008), Steven Kaplan

■ Ex Ante

Similar, but more constant picture with realized pay

Total (Realized) Pay of S&P 500 CEOs
to
Total AGI of Top 1% of Taxpayers



Source: ExecuComp, Saez (2008), Steven Kaplan

Realized

CEOs are not the only ones who earn more / earn a lot

- Hedge funds:
 - In 2007, top 20 earned over \$20 B.
 - In 2007, combined S&P 500 CEOs earned \$5.6 B or \$7.5 B.

John Paulson	\$3,700
George Soros	\$2,900
James Simons	\$2,800
Philip Falcone	\$1,700
Kenneth Griffin	\$1,500
Steven Cohen	\$900
Timothy Barakett	\$750
Stephen Mandel Jr.	\$710
John Griffin	\$625
O. Andreas Halvorsen	\$520
John Arnold	\$480
James Dinan	\$470
Joseph DiMenna	\$450
David Slager	\$450
Seth Klarman	\$425
Lawrence Robbins	\$420
William von Mueffling	\$410
Charles (Chase) Payson Cc	\$400
Raymond Dalio	\$400
Israel Englander	\$400

Not to mention

- Private Equity Investors
- Investment Bankers
- Athletes
- Entertainers
- Lawyers (when they have to disclose):
 - Thomas Donilon, O'Melveny and Myers, \$3.9 M in 2008.
 - Eric Holder, Covington and Burling, \$3.3 M in 2008.

What does this mean?

- Pay increases have been systemic at the top end.
 - Other groups -- investors, athletes, lawyers, etc. have seen significant pay increases where no agency problems exist.
 - » Pay is arms length / negotiated.
 - » Increases are at least as large as for CEOs.
 - Hard to understand why one would conclude CEO pay increases are driven by managerial power / agency problems.
- In other words, market forces, not weak corporate governance, appear to have bid up the pay of successful individuals in many sectors.
 - » Note, this is not a fairness argument.

- Most recent examples: new CEOs of quasi-govt. owned AIG and RBS.
 - Robert Benmosche of AIG - a package worth over \$10 M.
 - Stephen Hester of RBS - a package worth up to £ 9.6 M (\$15 M).

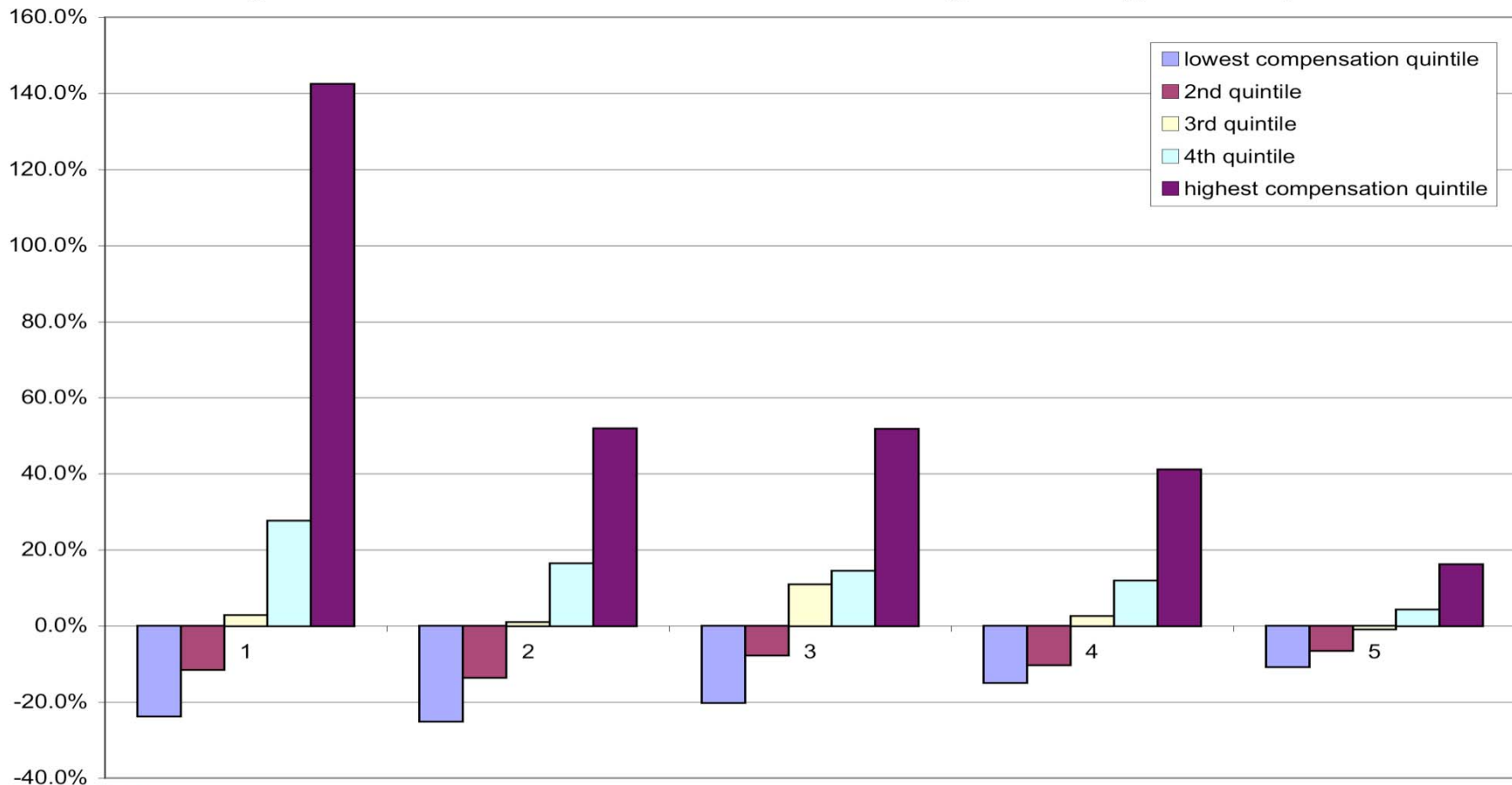
- Most plausible explanation:
 - » Technological change and greater scale increase the returns / productivity at the top end.
 - Can manage / apply talent to much greater assets / larger companies than in the past.
 - Can trade large sums much more efficiently.
 - Can access much larger audiences.

Are CEOs Paid for Performance?

- Compare stock performance of most highly paid CEOs relative to least highly paid CEOs.
 - Look within similar sized firms (because pay increases with size).
- Realized pay is highly related to performance.
 - I.e., there is strong pay-for-performance.

Realized pay is highly related to performance.
I.e., there is strong pay-for-performance.

Figure 3: Three Year Performance Relative to Value Weighted Industry, CEOs Only



- Drop in the stock market has made this clear:
 - Equilar (a leading executive pay data provider) estimated that accumulated wealth of S&P 500 CEOs dropped by 43% in the crisis.
 - “There you see a very strong link with the shareholder.”
 - » Alexander Cwirko-Godycki of Equilar

- Some of confusion (or obfuscation) over pay is that critics focus on ex ante or estimated pay rather than realized pay.
 - Much of realized pay = exercise of in-the-money options.
 - » CEOs tend to receive large payoffs when stock up substantially.
 - Ex ante pay may be less related to stock performance.
 - » But that is not the point.
 - » CEOs cannot walk away with ex ante / Black-Scholes values.

Summary to this point

- Pay of other talented individuals with arms-length compensation arrangements up at least as much since 1994.
 - CEO pay has gone down / been flat since 2000 / 2001.
 - CEOs occupy same or lower place in income distribution vs. 1997.
- Realized CEO pay strongly related to performance.
- Also,
 - CEO turnover up substantially.
 - CEO pay (ex ante) likely to decline again in 2009.
 - » Most pay packages set in spring of 2009 before rally.

Patterns are consistent with market outcomes

- CEO pay patterns no different from those of others who are highly paid.
 - Hard to see that managerial power / agency / poor governance explains much.
- High pay likely driven by:
 - Market scale, globalization, technology.

What Does This Mean for Pay Regulation?

- Do not see the need for new / greater regulation.
 - Typical CEO does not appear overpaid.
 - For outliers / egregious examples, shareholders in the U.S. already have solutions:
 - » Can propose say-on-pay resolution.
 - Interestingly, even in these “egregious” cases, most resolutions fail to get 50% of the votes.
 - In April 2008, proposals rejected for Citi, Merrill, B of A.
 - » Market forces have reduced outliers and backdating.
 - » E.g., see Kahan and Rock (2009).

- Mandated “Say-on-Pay” would impose costs with no benefits.
 - No benefits.
 - » Already have this available in U.S.
 - » After Say-on-Pay in U.K., pay went up more in U.K. than in U.S.
From 2002 to 2007:
 - Average CEO pay up by 72% in U.K.
 - Average CEO pay up by 18% in U.S.
 - See Alissa (2009). Also, see Ferri and Maber (2008).
 - But real costs.
 - » Like a physical search at the airport on everyone’s luggage even after the luggage has gone through the x-ray machine with no problems.

- Greater regulation will further increase attractiveness of alternatives for most talented executives.
 - Private equity funded companies?
 - » See continental Europe.
 - Consulting?
 - Hedge funds?
 - Retirement?
 - Have seen this in financial services.
 - » Hard to find top senior people to work at TARP / govt. run institutions.
 - » Better people have left (and will continue to leave) most compromised firms.



Did poorly designed top executive compensation at financial firms fuel the financial crisis?

- What forces led to the financial crisis?

- Excessive credit:
 - Accommodative monetary policy.
 - » Greenspan and Fed kept interest rates low when all indications were they should have been higher.
 - » Strong credit growth = Asset prices up, especially housing.
 - » Similar effects in other countries.
 - Not just US – Ireland, Spain, UK...
 - Global mismatch between desired savings and realized investment.
 - » “Capital Glut.”
 - » Emerging markets and developing countries have lots of \$ relative to investment needs.

- Accommodative regulatory policy.
 - Political system wanted to make housing available to more lower income borrowers (even if they could not really afford it).
 - » Fannie and Freddie mandated to have 56% of loans to lower income borrowers.
 - SEC allowed investment banks to take on too much leverage.

- Financial innovation: Originate-to-securitize.
 - Mortgages pooled together and then sold in the capital market.
 - Then pools broken up into different tranches with different seniority.
 - Based on past returns and housing prices, senior tranches were considered safe.
 - » Broadened market of potential purchasers.
 - » Distributed globally.
 - Ok in stable markets, but problematic in defaulting markets.

- Rating agencies provided ratings that were too high.
 - Just got it wrong by extrapolating historical housing prices.
 - Just got it wrong by not understanding systemic risk / correlations.
 - Had incentives to get it wrong because fees paid by relatively few issuers?

- Accommodative incentives.
 - Incentives for individuals to package loans.
 - » Up front fees, annual bonuses, etc.
 - Incentives for some banks to make iffy mortgage loans.
 - » Annual bonuses, earnings pressure.
 - Incentives to sell mortgage backed securities.
 - » Annual bonuses, etc.
 - Incentives for individuals to buy loans / mortgage backed securities.
 - » Annual bonuses, etc.

- Poor risk management at the top.
 - CEOs and top executives of banks did not understand what was going on below.

- BUT, not clear CEO pay / incentives were meaningful part of problem.
 - Fahlenbrach and Stulz (2009)
 - » Study bank CEO incentives in crisis.
 - » No evidence that banks with CEOs with more aligned incentives performed better.
 - Performance not positively related to higher CEO stock ownership.
 - In fact, performance worse for higher ownership.
 - Performance not negatively related to higher option holdings.

- Several well-known CEOs had a large fraction of their net worth in company stock.
 - » Cayne at Bear Stearns lost almost \$1 billion in Bear Stearns stock.
 - » Fuld at Lehman lost almost \$1 billion in Lehman stock.
 - » O’Neal at Merrill lost tens, maybe hundreds of millions in Merrill stock.

- Seems unlikely the CEOs knowingly took bad bets.
 - » Crisis would have happened if CEOs:
 - had been paid much less.
 - had been paid all in bank equity.
 - » In fact, financial crisis happened in late 1980s / early 1990s with different pay structures.
 - Citi almost failed then as well.

Right Solution?

- Do a better job of monitoring bank capital / bank leverage.
 - Set higher capital requirements.
 - Make capital requirements pro-cyclical.
 - » Over reserve in booms.
 - Make some capital contingent.
 - » Put more equity in when system is tottering.
 - » Automatic conversion of long-term debt to equity.
 - Treasury has proposed these changes.
- Do a better job on risk management.

- Pay regulations for top bank executives counterproductive.
 - Not clear pay regulations will reduce likelihood of next crisis.
 - Pay regulations likely to be inefficient -- one size fits all.
 - » Same for traders and investment bankers.
 - Pay regulations also are susceptible to political incentives for politicians to put limits on pay rather than designing efficient or optimal pay.
 - » Appeal to voter anger.
 - Likely to benefit hedge funds and boutiques.

- That said, does not hurt to encourage banks to defer payouts / impose clawbacks, particularly for traders.

- TARP provides an instructive and cautionary example.
 - Pay restrictions imposed on TARP banks by Dodd amendment to stimulus package.
 - Clearly problematic.
 - » Best employees leave for unrestricted banks and financial institutions.
 - » Very difficult to hire in top talent.

Conclusion

- Are U.S. CEOs are overpaid?
 - Pay of other groups has increased substantially and by same order of magnitude as CEOs, **despite the arms-length nature of their compensation arrangements.**
- Is CEO pay a result of agency / managerial power?
 - For the most part, CEO pay is market and technology driven.
- Do boards pay CEOs for performance?
 - The typical CEO is paid for performance.
 - CEOs lost 40%+ of net worth in 2008.
- Did poorly designed top executive compensation at financial firms fuel the financial crisis?
 - They do not appear to have played a significant role, particularly relative to other factors.

What does this mean for regulation?

- More regulation of CEO pay in general likely to be ineffective, unnecessary or counterproductive.
- More regulation of top bank executive pay will not avert the next crisis, but risks driving talent elsewhere, hurting the banks.
 - There are better choices available to reduce the likelihood of the next crisis.



Thank you.

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