Online Appendix Table A1: Summary Statistics of Alternative Measures of Luck and Skill

The table provides the summary statistics of various measures of luck and skill considered in the paper. Main Table 3 describes the 15 different measures of luck and skill that we estimate as part of robustness to our baseline.

Row			Mean	Stdev	Median	p25	p75
(0)	Baseline Specification (Panel C, Table 2)	Luck Skill	0.153 0.002	0.267 0.316	0.143 0.008	0.009 -0.165	0.295 0.176
(1)	Pooled (instead of by executive) regression	Luck Skill	0.156 -0.002	0.235 0.320	0.170 -0.007	0.023 -0.178	0.305 0.168
(2)	Pooled regressions with executive FE (instead of by executive)	Luck Skill	0.156 -0.002	0.235 0.320	0.170 -0.008	0.023 -0.178	0.306 0.168
(3)	Luck sensitivity estimated each year using prior year data	Luck Skill	0.153 0.002	0.360 0.413	0.126 0.012	-0.033 -0.211	0.328 0.223
(4)	Skill = Residual (not Residual + Intercept)	Luck Skill	0.162 -0.008	0.277 0.282	0.168 -0.009	0.013 -0.161	0.317 0.143
(5)	Skill = Intercept (not Residual + Intercept)	Luck Skill	0.145 0.010	0.385 0.141	0.136 0.018	-0.073 -0.052	0.348 0.088
(6)	No regression; Luck = industry returns (similar to RPE)	Luck Skill	0.156 -0.002	0.235 0.320	0.170 -0.007	0.023 -0.178	0.305 0.168
(7)	Luck factor: only industry returns (no market returns)	Luck Skill	0.154 0.001	0.250 0.312	0.144 0.004	0.019 -0.166	0.289 0.171
(8)	Luck factors: Fama-French + Momentum factors	Luck Skill	0.120 0.035	0.242 0.330	0.126 0.028	-0.005 -0.148	0.255 0.211
(9)	Industry = <i>Compustat</i> (instead of <i>Execucomp</i>) firms in same 2-digit SIC	Luck Skill	0.009 0.146	0.331 0.384	0.029 0.122	-0.160 -0.075	0.197 0.344
(10)	Industry = Firms with same TNIC (instead of same 2-digit SIC)	Luck Skill	0.119 0.048	0.365 0.350	0.120 0.027	-0.055 -0.147	0.296 0.219
(11)	Excluding (instead of including) firm return in industry return	Luck Skill	0.159 -0.004	0.258 0.327	0.144 0.006	0.019 -0.175	0.291 0.178
(12)	Value-weighted (instead of Equal-weighted) industry and market returns	Luck Skill	0.116 0.038	0.245 0.322	0.129 0.032	0.003 -0.132	0.255 0.205
(13)	Only December fiscal year end firms (instead of all firms)	Luck Skill	0.149 0.004	0.266 0.307	0.137 0.010	0.008 -0.159	0.292 0.172
(14)	Annual returns (instead of monthly returns)	Luck Skill	0.189 -0.020	0.421 0.381	0.128 -0.022	-0.028 -0.217	0.345 0.165
(15)	Unwinsorized (instead of winsorized) firms returns	Luck Skill	0.165 0.000	0.293 0.338	0.144 0.007	0.012 -0.173	0.303 0.179

Table A2: New Baseline = $\Delta Log(Pay)$ instead of ΔPay as dependent variable The table reports the results using an alternative baseline where we use $\Delta Log(Pay)$ instead of ΔPay as dependent variable in the 2^{nd} stage regression.

Panel A: Main Table 3 Redone

Row	Robustness to 1st stage regression	Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	New Baseline Specification (Row 1, Table 4)	0.29*** (6.9)	0.08 (0.9)	24,676
(1)	Pooled (instead of by executive) regression	0.26*** (6.2)	0.12 (1.3)	24,676
(2)	Pooled regressions with executive FE (instead of by executive)	0.26*** (6.2)	0.12 (1.3)	24,676
(3)	Luck sensitivity estimated each year using prior year data	0.34*** (12.4)	0.02* (1.6)	23,071
(4)	Skill = Residual (not Residual + Intercept)	0.30*** (7.2)	0.10 (1.3)	24,676
(5)	Skill = Intercept (not Residual + Intercept)	0.36*** (15.2)	-0.00 (-0.0)	24,676
(6)	No regression; Luck = industry returns (similar to RPE)	0.26*** (6.2)	0.12 (1.3)	24,676
(7)	Luck factor: only industry returns (no market returns)	0.29*** (6.4)	0.15 (1.6)	24,676
(8)	Luck factors: Fama-French + Momentum factors	0.20*** (4.1)	-0.09 (-0.9)	24,676
(9)	Industry = <i>Compustat</i> (instead of <i>Execucomp</i>) firms in same 2-digit SIC	0.26*** (5.7)	0.12* (1.8)	25,116
(10)	Industry = Firms with same TNIC (instead of same 2-digit SIC)	0.26*** (5.6)	0.10 (1.3)	15,984
(11)	Excluding (instead of including) firm return in industry return	0.26*** (5.7)	0.10 (1.1)	24,676
(12)	Value-weighted (instead of Equal-weighted) industry and market returns	0.17*** (3.7)	0.18 ** (2.0)	24,676
(13)	Only December fiscal year end firms (instead of all firms)	0.24*** (4.6)	0.07 (0.7)	17,092
(14)	Annual returns (instead of monthly returns)	0.24*** (7.7)	0.23*** (3.4)	23,447
(15)	Unwinsorized (instead of winsorized) firms returns	0.28*** (7.1)	0.08 (1.0)	24,676

Panel B: Main Table 4 Redone

Row	Robustness to 2 nd stage regression	Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	New Baseline Specification (Row 1, Table 4)	0.29*** (6.9)	0.08 (0.9)	24,676
(1)	Δ Log(Pay) instead of Δ Pay	This is the	baseline; Same as R	ow (0)
(2)	Log(Pay) instead of ΔPay	0.39*** (12.0)	-0.03 (-0.4)	25,132
(3)	Luck and Skill in \$ terms (instead of rates of return) [$\times 10^{-4}$]	0.82*** (4.1)	-0.03 (-1.4)	24,676
(4)	ΔOI/Assets (instead of Stock Returns)	2.55*** (6.1)	0.78* (1.8)	23,551
(5a)	Δ OI/Assets and Stock Returns (instead of just Stock Returns): Coefficients relating to stock returns	0.27*** (6.4)	0.07 (0.8)	23,105
(5b)	$\Delta OI/Assets$ and Stock Returns (instead of just Stock Returns): Coefficients relating to $\Delta OI/Assets$	1.69*** (4.2)	0.71 * (1.7)	23,105
(6)	Performance period: 12 months prior to date of largest grant	0.28*** (6.8)	0.10 (1.2)	23,033
(7)	Performance period: Current fiscal year and the prior two fiscal years	0.55*** (8.2)	0.40** (2.0)	23,000
(8)	Median (instead of OLS) regression	0.24*** (9.8)	0.05 (0.9)	24,676
(9)	Exclude Size as control variable	0.30*** (7.1)	0.08 (0.9)	24,676
(10)	Exclude Skill terms	0.23*** (5.3)	0.09 (1.0)	24,676
(11)	Exclude cdf (Variance) terms	0.24*** (6.2)	0.08 (1.0)	25,138
(12)	Bad Luck = Bottom 20 th percentile; Good Luck = Top 20 th percentile	0.34*** (4.9)	0.01 (0.2)	24,676
(13)	Bad Luck = Bottom 10 th percentile; Good Luck = Top 10 th percentile	0.37*** (4.5)	0.03 (0.4)	24,676

Table A3: New Baseline = Log(Pay) instead of ΔPay as dependent variable. The table reports the results using an alternative baseline where we use Log(Pay) instead of ΔPay as dependent variable in the 2^{nd} stage regression.

Panel A: Main Table 3 Redone

Row	Robustness to 1 st stage regression	Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	New Baseline Specification (Row 2, Table 4)	0.39*** (12.0)	-0.03 (-0.4)	25,132
(1)	Pooled (instead of by executive) regression	0.39*** (11.6)	-0.02 (-0.3)	25,132
(2)	Pooled regressions with executive FE (instead of by executive)	0.39*** (11.6)	-0.02 (-0.3)	25,132
(3)	Luck sensitivity estimated each year using prior year data	0.39*** (16.8)	0.01 * (1.7)	23,251
(4)	Skill = Residual (not Residual + Intercept)	0.40*** (12.6)	-0.09 (-1.6)	25,132
(5)	Skill = Intercept (not Residual + Intercept)	0.44*** (19.5)	-0.02 (-0.5)	25,132
(6)	No regression; Luck = industry returns (similar to RPE)	0.39*** (11.6)	-0.02 (-0.3)	25,132
(7)	Luck factor: only industry returns (no market returns)	0.41*** (11.3)	-0.03 (-0.4)	25,132
(8)	Luck factors: Fama-French + Momentum factors	0.32*** (8.5)	-0.12 (-1.4)	25,132
(9)	Industry = <i>Compustat</i> (instead of <i>Execucomp</i>) firms in same 2-digit SIC	0.38*** (9.9)	0.03 (0.6)	25,578
(10)	Industry = Firms with same TNIC (instead of same 2-digit SIC)	0.36*** (10.3)	0.05 (0.7)	16,209
(11)	Excluding (instead of including) firm return in industry return	0.37*** (10.6)	0.00 (0.0)	25,132
(12)	Value-weighted (instead of Equal-weighted) industry and market returns	0.32*** (8.2)	0.05 (0.6)	25,132
(13)	Only December fiscal year end firms (instead of all firms)	0.35*** (8.2)	0.09 (1.0)	17,310
(14)	Annual returns (instead of monthly returns)	0.30*** (11.8)	0.21*** (3.8)	23,856
(15)	Unwinsorized (instead of winsorized) firms returns	0.39*** (12.3)	-0.06 (-0.9)	25,132

Panel B: Main Table 4 Redone

Row	Robustness to 2 nd stage regression	Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	New Baseline Specification (Row 2, Table 4)	0.39*** (12.0)	-0.03 (-0.4)	25,132
(1)	Δ Log(Pay) instead of Δ Pay	0.29*** (6.9)	0.08 (0.9)	24,676
(2)	Log(Pay) instead of Δ Pay	This is the	baseline; Same as R	low (0)
(3)	Luck and Skill in \$ terms (instead of rates of return) [$\times 10^{-4}$]	0.94*** (4.4)	-0.06* (-1.9)	25,132
(4)	ΔOI/Assets (instead of Stock Returns)	2.01*** (5.8)	0.68* (1.8)	23,960
(5a)	ΔOI/Assets and Stock Returns (instead of just Stock Returns): Coefficients relating to stock returns	0.38*** (11.4)	-0.03 (-0.4)	23,507
(5b)	Δ OI/Assets and Stock Returns (instead of just Stock Returns): Coefficients relating to Δ OI/Assets	0.97*** (2.9)	0.57 (1.5)	23,507
(6)	Performance period: 12 months prior to date of largest grant	0.22*** (6.8)	0.01 (0.1)	23,218
(7)	Performance period: Current fiscal year and the prior two fiscal years	0.64*** (10.0)	0.35** (2.1)	23,283
(8)	Median (instead of OLS) regression	0.68*** (15.6)	-0.19** (-2.1)	25,132
(9)	Exclude Size as control variable	0.18*** (5.3)	0.07 (1.0)	25,132
(10)	Exclude Skill terms	0.32*** (9.5)	-0.01 (-0.1)	25,132
(11)	Exclude cdf (Variance) terms	0.33*** (11.9)	-0.10 (-1.4)	26,941
(12)	Bad Luck = Bottom 20 th percentile; Good Luck = Top 20 th percentile	0.42*** (7.6)	-0.01 (-0.2)	25,132
(13)	Bad Luck = Bottom 10^{th} percentile; Good Luck = Top 10^{th} percentile	0.44*** (6.9)	0.01 (0.2)	25,132

Table A4: New Baseline = Luck and Skill in \$ terms (instead of rates of return)

The table reports the results using an alternative baseline where we use luck and skill estimated in \$ terms in the 2^{nd} stage regression. This is obtained by multiplying the baseline luck and skill estimated as rate of return by the firm's lagged market capitalization.

Panel A: Main Table 3 Redone

Row	Robustness to 1st stage regression	Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	New Baseline Specification (Row 5, Table 4)	0.52*** (4.1)	-0.01 (0.3)	24,714
(1)	Pooled (instead of by executive) regression	0.39*** (3.5)	-0.01 (0.6)	24,714
(2)	Pooled regressions with executive FE (instead of by executive)	0.37*** (3.4)	-0.01 (0.6)	24,714
(3)	Luck sensitivity estimated each year using prior year data	0.52*** (4.4)	0.02 (0.8)	23,106
(4)	Skill = Residual (not Residual + Intercept)	0.43*** (3.2)	-0.00 (-0.1)	24,714
(5)	Skill = Intercept (not Residual + Intercept)	0.68*** (8.2)	-0.00 (-0.1)	24,714
(6)	No regression; Luck = industry returns (similar to RPE)	0.39*** (3.5)	-0.01 (-0.6)	24,714
(7)	Luck factor: only industry returns (no market returns)	0.42*** (3.5)	-0.00 (-0.1)	24,714
(8)	Luck factors: Fama-French + Momentum factors	0.43*** (2.8)	-0.00 (-0.1)	24,714
(9)	Industry = <i>Compustat</i> (instead of <i>Execucomp</i>) firms in same 2-digit SIC	0.58*** (4.4)	0.05** (2.3)	25,154
(10)	Industry = Firms with same TNIC (instead of same 2-digit SIC)	0.65*** (4.2)	0.04 (1.6)	16,011
(11)	Excluding (instead of including) firm return in industry return	0.52*** (3.7)	-0.00 (0.0)	24,714
(12)	Value-weighted (instead of Equal-weighted) industry and market returns	0.44*** (3.8)	-0.01 (-0.6)	24,714
(13)	Only December fiscal year end firms (instead of all firms)	0.31*** (2.9)	-0.01 (-0.5)	17,127
(14)	Annual returns (instead of monthly returns)	0.47*** (4.8)	0.05* (1.8)	23,483
(15)	Unwinsorized (instead of winsorized) firms returns	0.41*** (2.8)	-0.02 (-0.5)	24,714

Panel B: Main Table 4 Redone

Row	Robustness to 2 nd stage regression	Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	New Baseline Specification (Row 5, Table 4)	0.52*** (4.1)	-0.01 (-0.3)	24,714
(1)	Δ Log(Pay) instead of Δ Pay [×10 ⁻⁴]	0.82*** (4.1)	-0.03 (-1.4)	24,676
(2)	Log(Pay) instead of ΔPay [×10 ⁻⁴]	0.94*** (4.4)	-0.06* (-1.9)	25,132
(3)	Luck and Skill in \$ terms (instead of rates of return)	This is the	baseline; Same as R	ow (0)
(4)	ΔOI/Assets (instead of Stock Returns)	7,083.91*** (3.1)	5,580.02** (2.4)	23,587
(5a)	Δ OI/Assets and Stock Returns (instead of just Stock Returns): Coefficients relating to stock returns	0.50*** (3.9)	-0.01 (-0.3)	23,147
(5b)	$\Delta OI/Assets$ and Stock Returns (instead of just Stock Returns): Coefficients relating to $\Delta OI/Assets$	5,351.33** (2.4)	5,661.30** (2.4)	23,147
(6)	Performance period: 12 months prior to date of largest grant	1,717.58*** (7.3)	212.90 (0.4)	23,064
(7)	Performance period: Current fiscal year and the prior two fiscal years	3,058.21*** (7.6)	2,284.56* (1.9)	23,035
(8)	Median (instead of OLS) regression	0.35*** (7.5)	-0.01 (-0.4)	24,714
(9)	Exclude Size as control variable	0.50*** (3.9)	-0.01 (-0.2)	24,714
(10)	Exclude Skill terms	0.50*** (4.2)	0.01 (0.2)	24,714
(11)	Exclude cdf (Variance) terms	0.11*** (3.0)	-0.02 (-0.6)	25,178
(12)	Bad Luck = Bottom 20^{th} percentile; Good Luck = Top 20^{th} percentile	0.54*** (3.6)	0.07 (0.7)	24,714
(13)	Bad Luck = Bottom 10 th percentile; Good Luck = Top 10 th percentile	0.53*** (3.3)	0.07 (0.7)	24,714

Table A5: New Baseline = Value-weighted (instead of Equal-weighted) industry and market returns

The table reports the results using an alternative baseline where the luck factors used in the 1st stage regression are computed using value-weighted firm returns.

Panel A: Main Table 3 Redone

Row	Robustness to 1st stage regression	Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	New Baseline Specification (Row 12, Table 3)	843.86*** (2.9)	931.96 (1.5)	24,714
(1)	Pooled (instead of by executive) regression	823.54*** (2.9)	1,492.01** (2.0)	24,714
(2)	Pooled regressions with executive FE (instead of by executive)	770.29** (2.5)	1,419.39** (2.0)	24,714
(3)	Luck sensitivity estimated each year using prior year data	1,263.74*** (6.5)	677.90** (2.0)	23,106
(4)	Skill = Residual (not Residual + Intercept)	959.15*** (3.6)	1,226.57** (2.3)	24,714
(5)	Skill = Intercept (not Residual + Intercept)	1,570.03*** (10.1)	512.11 (0.7)	24,714
(6)	No regression; Luck = industry returns (similar to RPE)	904.27*** (3.4)	1,233.08** (2.1)	24,714
(7)	Luck factor: only industry returns (no market returns)	763.97*** (2.6)	1,170.58 * (1.7)	24,714
(8)	Luck factors: Fama-French + Momentum factors [Same as Row 8 of Main Table 3]	792.25*** (2.7)	361.15 (0.6)	24,714
(9)	Industry = <i>Compustat</i> (instead of <i>Execucomp</i>) firms in same 2-digit SIC	842.89*** (2.9)	1,004.42 (1.6)	25,064
(10)	Industry = Firms with same TNIC (instead of same 2-digit SIC)	1,450.25*** (4.5)	86.29 (0.1)	15,268
(11)	Excluding (instead of including) firm return in industry return	720.26** (2.4)	1,026.67* (1.7)	24,714
(12)	Value-weighted (instead of Equal-weighted) industry and market returns	This is the	baseline; Same as R	low (0)
(13)	Only December fiscal year end firms (instead of all firms)	194.93 (0.5)	2,051.39*** (2.9)	17,127
(14)	Annual returns (instead of monthly returns)	1,129.30*** (5.4)	564.05* (1.7)	23,483
(15)	Unwinsorized (instead of winsorized) firms returns	847.89*** (3.1)	735.38 (1.3)	24,714

Panel B: Main Table 4 Redone

Row	Robustness to 2 nd stage regression	Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	New Baseline Specification (Row 12, Table 3)	843.86*** (2.9)	931.96 (1.5)	24,714
(1)	Δ Log(Pay) instead of Δ Pay	0.17*** (3.7)	0.18** (2.0)	24,676
(2)	$Log(Pay)$ instead of ΔPay	0.32*** (8.3)	0.05 (0.6)	25,132
(3)	Luck and Skill in \$ terms (instead of rates of return)	0.44*** (3.8)	-0.01 (-0.6)	24,714
(4)	ΔOI/Assets (instead of Stock Returns)	5,209.94** (2.0)	9,676.36*** (3.1)	23,587
(5a)	ΔOI/Assets and Stock Returns (instead of just Stock Returns): Coefficients relating to stock returns	896.16*** (3.0)	794.15 (1.3)	23,141
(5b)	Δ OI/Assets and Stock Returns (instead of just Stock Returns): Coefficients relating to Δ OI/Assets	1,213.18 (0.5)	9,357.50*** (3.0)	23,141
(6)	Performance period: 12 months prior to date of largest grant	1,907.69*** (6.6)	-240.36 (-0.5)	23,064
(7)	Performance period: Current fiscal year and the prior two fiscal years	2,852.04*** (5.7)	2,262.10 (1.6)	23,035
(8)	Median (instead of OLS) regression	504.14*** (8.4)	166.71 (1.2)	24,714
(9)	Exclude Size as control variable	810.93*** (2.8)	931.45 (1.5)	24,714
(10)	Exclude Skill terms	706.95** (2.4)	593.06 (1.0)	24,714
(11)	Exclude cdf (Variance) terms	965.38*** (3.4)	1,382.14** (2.5)	25,178
(12)	Bad Luck = Bottom 20^{th} percentile; Good Luck = Top 20^{th} percentile	1,876.92*** (4.3)	781.51* (1.8)	24,714
(13)	Bad Luck = Bottom 10^{th} percentile; Good Luck = Top 10^{th} percentile	1,976.08*** (3.7)	622.12 (1.1)	24,714

Table A6: New Baseline = Pooled (instead of CEO-Firm) Regressions

The table reports the results using an alternative baseline where the performance decomposition is done using a pooled regression.

Panel A: Main Table 3 Redone

Row	Robustness to 1 st stage regression	Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	New Baseline Specification (Row 1, Table 3)	1,101.63*** (4.5)	977.51* (1.8)	24,714
(1)	Pooled (instead of by executive) regression	Sam	ne as Row (0) above	;
(2)	Pooled regressions with executive FE (instead of by executive)	1,100.12*** (4.5)	978.87* (1.8)	24,714
(3)	Luck sensitivity estimated each year using prior year data	1,086.06*** (4.4)	896.07 (1.5)	23,973
(4)	Skill = Residual (not Residual + Intercept)	Sam	ne as Row (0) above	:
(5)	Skill = Intercept (not Residual + Intercept)	because t	NA here is only one into	ercept
(6)	No regression; Luck = industry returns (similar to RPE)		NA	
(7)	Luck factor: only industry returns (no market returns)	1,101.63*** (4.5)	977.51* (1.8)	24,714
(8)	Luck factors: (Fama-French + Momentum) factors	509.74 (1.1)	-245.96 (-0.2)	25,190
(9)	Industry = <i>Compustat</i> (instead of <i>Execucomp</i>) firms in same 2-digit SIC	1,331.83*** (5.3)	209.66 (0.4)	25,154
(10)	Industry = Firms with same TNIC (instead of same 2-digit SIC)	1,475.61*** (5.1)	54.18 (0.1)	15,268
(11)	Excluding (instead of including) firm return in industry return	991.24*** (3.6)	905.67 (1.4)	24,714
(12)	Value-weighted (instead of Equal-weighted) industry and market returns	823.54*** (2.8)	1,492.01** (2.0)	24,714
(13)	Only December fiscal year end firms (instead of all firms)	902.68*** (5.4)	612.39 (0.9)	17,127
(14)	Annual returns (instead of monthly returns)	886.79*** (3.2)	1,503.04* (1.9)	16,256
(15)	Unwinsorized (instead of winsorized) firms returns	1160.37*** (5.0)	716.12 (1.4)	24,714

Panel B: Main Table 4 Redone

Row	Robustness to 2 nd stage regression	Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	New Baseline Specification (Row 1, Table 3)	1,101.63*** (4.5)	977.51* (1.8)	24,714
(1)	Δ Log(Pay) instead of Δ Pay	0.26*** (6.2)	0.12 (1.3)	24,676
(2)	$Log(Pay)$ instead of ΔPay	0.39*** (11.6)	-0.02 (-0.3)	25,132
(3)	Luck and Skill in \$ terms (instead of rates of return)	0.39*** (3.5)	-0.01 (-0.6)	24,714
(4)	ΔOI/Assets (instead of Stock Returns)	-2,249.39 (-0.5)	23,323.47*** (3.9)	23,587
(5a)	ΔOI/Assets and Stock Returns (instead of just Stock Returns): Coefficients relating to stock returns	1,051.33*** (4.1)	361.28 (0.7)	23,141
(5b)	Δ OI/Assets and Stock Returns (instead of just Stock Returns): Coefficients relating to Δ OI/Assets	-6,952.17 (-1.5)	25,181.32*** (4.2)	23,141
(6)	Performance period: 12 months prior to date of largest grant	1,705.29*** (6.9)	459.87 (0.8)	23,066
(7)	Performance period: Current fiscal year and the prior two fiscal years	2,952.87*** (7.1)	2,931.35** (2.4)	23,054
(8)	Median (instead of OLS) regression	509.44*** (9.1)	83.10 (0.6)	24,714
(9)	Exclude Size as control variable	1,079.92*** (4.5)	986.93* (1.8)	24,714
(10)	Exclude Skill terms	736. 81*** (3.0)	1,081.68* (1.9)	24,714
(11)	Exclude cdf (Variance) terms	812.64* (3.6)	909.27* (1.7)	25,186
(12)	Bad Luck = Bottom 20^{th} percentile; Good Luck = Top 20^{th} percentile	2,348.77*** (5.4)	1,101.91*** (2.7)	24,714
(13)	Bad Luck = Bottom 10^{th} percentile; Good Luck = Top 10^{th} percentile	2,190.69*** (4.4)	771.29 (1.5)	24,714

Table A7: Is There Asymmetry Across Different Time Periods?

The table replicates the baseline results (Panel C of Table 2) for two different time periods: 1992-2005 and 2006-2014. Row 0 reports the baseline to make it easy to compare results. t-statistics are based on standard errors that are adjusted for heteroscedasticity and firm-level clustering. ***, ***, and * represent significance at the 1%, 5%, and 10% levels.

Row		Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	Baseline Specification (Panel C, Table 2)	1,305.56*** (5.6)	341.63 (0.7)	24,714
(1)	1992-2005	1,776.90*** (5.1)	-29.73 (-0.0)	13,843
(2)	2006-2014	626.88** (2.0)	346.61 (0.6)	10,871

Table A8: Is There Asymmetry Across Different Industries?

The table replicates the baseline results (Panel C of Table 2) for different industry groups. We map 2-digit SIC codes to industry groups based on the classification provided at https://www.osha.gov/pls/imis/sic_manual.html. *Construction* = firms with 2-digit SIC codes between 15 and 17, *Manufacturing* = firms with 2-digit SIC codes between 20 and 39, *Regulation* = firms with 2-digit SIC codes between 40 and 49, *Trade* = firms with 2-digit SIC codes between 50 and 59, *Finance* = firms with 2-digit SIC codes between 60 and 69, *Service* = firms with 2-digit SIC codes between 70 and 89. We exclude the *Agriculture* sector, which includes firms with two-digit SIC codes below 10, because there are only 23 such firm-years in our sample. Row 0 reports the baseline to make it easy to compare results. t-statistics are based on standard errors that are adjusted for heteroscedasticity and firm-level clustering. ***, **, and * represent significance at the 1%, 5%, and 10% levels.

Row		Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	Baseline Specification (Panel C, Table 2)	1,305.56*** (5.6)	341.63 (0.7)	24,714
(1)	Mining	-971.85 (-0.7)	1,707.74 (1.2)	950
(2)	Construction	1,041.81 (0.5)	2,142.43 (0.4)	311
(3)	Manufacturing	1,912.26*** (5.5)	-953.48 (-1.5)	10,717
(4)	Regulated	441.16 (0.5)	1,559.63 (0.8)	2,890
(5)	Trade	1,217.92* (1.8)	-200.01 (-0.1)	2,698
(6)	Finance	-433.77 (-0.5)	2,951.44 (1.6)	3,526
(7)	Service	1,589.92** (2.4)	65.38 (0.0)	3,524

Table A9: Is There Asymmetry Across Different Compensation Groups?

The table replicates the baseline results (Panel C of Table 2) for different compensation groups based on total pay, total value of options granted, and the ratio of option grants to total pay. The "high" and "low" groups are based on the annual median value. Row 0 reports the baseline to make it easy to compare results. t-statistics are based on standard errors that are adjusted for heteroscedasticity and firm-level clustering. ***, ***, and * represent significance at the 1%, 5%, and 10% levels.

Row		Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	Baseline Specification (Panel C, Table 2)	1,305.56*** (5.6)	341.63 (0.7)	24,714
(1)	Total Pay (High)	1,726.19*** (4.0)	605.18 (0.7)	12,969
(2)	Total Pay (Low)	200.54 (1.5)	561.62* (1.7)	11,745
(3)	Value of Option Grants (High)	1,673.30*** (4.6)	358.43 (0.4)	13,050
(4)	Value of Option Grants (Low)	593.18** (2.2)	316.58 (0.5)	11,664
(5)	Value of Option Grants/Total Pay (High)	1,290.34*** (3.7)	304.56 (0.4)	12,821
(6)	Value of Option Grants/Total Pay (Low)	970.12*** (3.1)	-58.66 (-0.1)	11,893

Table A10: Is There Asymmetry Using Alternative Accounting Measures?

The table tests of asymmetry in pay for accounting performance using alternative accounting performance. For comparison, we report the baseline number from Row 4, Table 4. The baseline accounting performance is the change in the ratio of Operating Income to Assets [given by $\Delta(\text{EBIT/Assets})$]. *Row 1*: use level of EBIT/Assets. *Row 2*: use $\Delta(\text{EBITDA/Assets})$. *Row 3*: use level of EBITDA/Assets. t-statistics are based on standard errors that are adjusted for heteroscedasticity and firm-level clustering. ****, ***, and * represent significance at the 1%, 5%, and 10% levels.

Row		Pay for Good Luck	Incremental Pay for Bad Luck	N
(0)	Baseline: $\Delta(OI/Assets) = \Delta(EBIT/Assets)$ [Same as Row 4, Table 4]	7,083.91*** (3.1)	5,580.02** (2.4)	23,587
(1)	EBIT/Assets	6,473.48*** (7.9)	-553.84 (-0.3)	23,794
(2)	Δ(EBITDA/Assets)	4,644.76** (2.1)	5,718.90** (2.5)	23,587
(3)	EBITDA/Assets	5,755.45*** (7.2)	1,554.91 (0.8)	23,794
(4)	Δ (NI/Assets)	6,405.31*** (3.9)	2,107.67 (1.5)	23,846
(5)	NI/Assets	5,521.51*** (6.4)	-1,121.81 (-1.1)	24,008

Table A11: Alternative definitions of industry

The table tests of asymmetry in pay for luck using alternative definitions of industry. Column 1 reports the results from our baseline for comparison purposes. Column 2 reports the results when the first stage includes only equally weighted market returns in the 1st stage estimation of luck and skill. Column 3 reports the results when the first stage includes only value weighted market returns in the 1st stage estimation of luck and skill. Column 4 reports the results when we include equally weighted market returns as well as equally weighted peer group returns in the 1st stage estimation of luck and skill. We form peer groups as in Bizjak, Lemmon, and Naveen (2008). We first sort all firms in each year into two size groups, and within each size group, we sort firms into groups based on their two-digit SIC group. Column 5 reports the results when we include value-weighted market returns as well as the value-weighted peer group returns in the 1st stage. In Columns 2-5, the 2nd stage is identical to the baseline. t-statistics are based on standard errors that are adjusted for heteroscedasticity and firm-level clustering. ***, **, and * represent significance at the 1%, 5%, and 10% levels.

	Dependent Variable = Δ Pay				
	(1)	(2)	(3)	(4)	(5)
	Baseline	Only EW Market in 1 st stage	Only VW Market in 1 st stage	EW Peer Group + EW Market	VW Peer Group + VW Market
Luck	1,506.32*** (3.6)	-424.55 (-0.6)	8.49 (0.0)	1,105.55** (2.5)	759.64 (1.6)
Incremental Pay for Bad Luck	341.63 (0.7)	1,737.98** (2.2)	1,534.04** (2.3)	810.25 (1.6)	1004.51* (1.9)
Controls as in baseline	Yes	Yes	Yes	Yes	Yes
Observations	24,714	25,190	25,190	23,328	23,328

Table A12: GM for subsamples by time

The table estimates annual regressions of ΔPay (=TDC1_t-TDC1_{t-1}). Column 1 of presents the baseline GM specification where Luck and Skill are computed based on the GM methodology for the full sample period (1992-2014). We start with 1993 because we wish to include five years of data in each subsample and we do not have change in pay for 1992. In all columns, Luck and Skill are estimated over the full sample period using the GM methodology. In Columns 2 through 5, the 2^{nd} stage is estimated over the relevant 5-year sub-period.

5-year subsamples						
	(1)	(2)	(3)	(4)	(5)	
	GM:	GM	GM	GM	GM	
	Baseline for 1992-2014	1993-1997	1998-2002	2003-2007	2008-2012	
Pay for Good Luck	0.40*** (2.8)	0.14 (0.5)	0.81* (1.9)	0.86* (1.8)	0.22 (0.9)	
Incremental Pay for Bad Luck	-0.04** (-2.1)	-0.96** (-2.1)	-0.19* (-1.8)	-0.11 (-0.9)	0.08 (1.6)	
Controls as in GM	Yes	Yes	Yes	Yes	Yes	
Observations	17,512	3,353	3,739	3,989	4,676	