

SEMICONDUCTOR UNIVERSE PRICES

Closing Prices as of 12/31/15

	1Q	2Q	3Q	4Q	2015
Avg price chng %:	9.0%	1.7%	-13.4%	17.0%	6.5%

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Positive:	70.6%	41.0%	12.3%	71.4%	54.5%
Negative:	29.4%	59.0%	86.4%	28.6%	45.5%
No chng:	0.0%	0.0%	1.2%	0.0%	0.0%
Average P/E:	22.16				
Average P/S:	3.52				
Average P/B:	4.94				
Total Companies:	77				

Index	Close	Change	%	Days Range		1Q	2Q	3Q	4Q	2015
				Low	High					
SOX	663.48	(9.60)	-1.4%	663.44	671.05	1.3%	-2.1%	-11.4%	10.1%	-3.4%
SMH	53.28	(0.85)	-1.6%	53.28	53.92	1.2%	-1.2%	-8.6%	6.7%	-2.5%
NASDAQ	5,007.41	(58.44)	-1.2%	5,007.01	5,058.06	3.5%	1.8%	-7.4%	8.4%	5.7%
SP500	2,043.94	(19.42)	-0.9%	2,043.62	2,062.54	0.4%	-0.2%	-6.9%	6.5%	-0.7%
DJIA	17,425.03	(178.84)	-1.0%	17,421.16	17,590.66	-0.3%	-0.9%	-7.6%	7.0%	-2.2%

* = SOX

Ticker	Close	Chng	%	52-week				1Q	2Q	3Q	4Q	2015	Volume			% Change MACD		Diluted Shs (mil)	Cap (\$mil)	Trailing 12-Month		
				Low	High	Low %	High %						Day	Average	%	50-day	200-day			P/E	P/S	P/B
ACTS	1.67	-0.04	-2.3%	1.19	1.99	41.2%	-15.6%	-22.7%	4.0%	-0.6%	7.7%	-13.9%	627	11,286	-94.4%	-6.6%	1.1%	58.0	97	neg	1.9	0.6
ADI	55.32	-1.23	-2.2%	50.56	68.97	9.4%	-19.8%	13.5%	1.8%	-12.1%	-1.9%	-0.4%	1,388,239	2,827,800	-50.9%	-5.0%	-6.6%	316.6	17,514	17.5	5.1	3.5
* ALTR	53.96	0.03	0.1%	32.67	53.97	65.2%	0.0%	16.2%	19.3%	-2.2%	7.7%	46.1%	0	2,909,700	-100.0%	1.8%	5.5%	305.3	16,474	49.1	9.5	4.9
AMBA	55.74	-0.89	-1.6%	48.5	129.19	14.9%	-56.9%	49.3%	35.6%	-43.7%	-3.5%	9.9%	1,192,121	2,164,390	-44.9%	-1.8%	-29.0%	33.9	1,890	16.6	6.0	5.7
AMCC	6.37	-0.20	-3.0%	4.61	8.09	38.2%	-21.3%	-21.8%	32.4%	-21.3%	20.0%	-2.3%	567,074	678,562	-16.4%	-7.9%	-0.5%	82.2	524	neg	3.5	4.4
* AMD	2.87	-0.11	-3.7%	1.61	3.37	78.3%	-14.8%	0.4%	-10.4%	-28.3%	66.9%	7.5%	10,760,647	9,414,920	14.3%	19.8%	37.3%	785.0	2,253	neg	0.5	neg
ANAD	0.64	0.04	6.3%	0.19	1.55	235.5%	-58.9%	81.3%	-46.3%	-69.9%	189.9%	-15.0%	696,247	943,739	-26.2%	59.5%	55.4%	88.5	56	neg	0.8	2.0
AOSL	9.19	-0.26	-2.8%	6.98	9.9	31.7%	-7.2%	0.7%	-1.9%	-10.9%	18.0%	3.8%	26,219	68,127	-61.5%	-2.1%	7.7%	22.7	209	neg	0.6	0.9
ATML	8.61	-0.07	-0.8%	5.84	10.5	47.4%	-18.0%	-2.0%	19.7%	-18.1%	6.7%	2.5%	5,629,933	8,158,820	-31.0%	1.0%	1.4%	426.9	3,676	22.1	2.9	4.3
AVGO	145.15	-2.22	-1.5%	95.18	150.5	52.5%	-3.6%	26.2%	4.7%	-6.0%	16.1%	44.3%	1,929,964	3,492,120	-44.7%	6.2%	12.5%	294.0	42,674	16.2	6.2	9.1
* BRCM	57.82	-0.40	-0.7%	40.21	58.51	43.8%	-1.2%	-0.1%	18.9%	-0.1%	12.4%	33.4%	2,908,093	5,434,680	-46.5%	3.9%	9.8%	620.0	35,848	20.0	4.2	3.6
CAVM	65.71	-0.92	-1.4%	55.55	77.42	18.3%	-15.1%	14.6%	-2.8%	-10.8%	7.1%	6.3%	451,833	732,514	-38.3%	-1.0%	-2.8%	59.7	3,923	40.8	9.5	11.5
CEVA	23.36	-0.49	-2.1%	16.54	27.3	41.2%	-14.4%	17.5%	-8.9%	-4.4%	25.8%	28.8%	83,066	169,334	-50.9%	-5.1%	11.0%	21.1	492	53.1	8.6	2.7
CRUS	29.53	-1.16	-3.8%	22.63	38.2	30.5%	-22.7%	41.1%	2.3%	-7.4%	-6.3%	25.3%	1,541,228	1,952,280	-21.1%	-6.0%	-5.5%	66.3	1,958	10.5	1.7	2.4
CY	9.81	-0.09	-0.9%	8.11	16.25	21.0%	-39.6%	-1.2%	-16.7%	-27.5%	15.0%	-31.3%	3,748,014	6,549,770	-42.8%	-2.5%	-5.8%	363.0	3,561	0	2.7	1.2
DIOD	22.98	-0.05	-0.2%	18.42	30.65	24.8%	-25.0%	3.6%	-15.6%	-11.4%	7.5%	-16.6%	200,613	204,489	-1.9%	2.4%	3.3%	49.6	1,139	20.7	1.3	1.4
DSPG	9.44	-0.05	-0.5%	8.02	12.17	17.7%	-22.4%	10.2%	-13.8%	-11.8%	3.6%	-13.2%	45,548	42,567	7.0%	-5.6%	-0.5%	22.9	216	29.5	1.5	1.5
EXAR	6.13	-0.20	-3.2%	5.23	11.14	17.2%	-45.0%	-1.5%	-2.7%	-39.2%	3.0%	-39.9%	174,230	381,769	-54.4%	-1.5%	-11.3%	49.2	301	16.1	1.8	1.4
EZCH	24.72	-0.01	0.0%	14.3	25.21	72.9%	-1.9%	-0.1%	-16.5%	57.6%	-1.7%	29.2%	151,667	433,755	-65.0%	0.6%	14.7%	31.6	782	21.1	7.2	2.2
FCS	20.71	-0.04	-0.2%	12.22	21.71	69.5%	-4.6%	7.7%	-4.4%	-19.1%	47.3%	22.7%	2,000,121	3,006,820	-33.5%	5.6%	25.6%	114.6	2,373	39.1	1.7	2.2
GIG	3.04	-0.07	-2.3%	1.08	3.29	181%	-7.6%	0.8%	40.5%	2.9%	73.7%	153.3%	294,487	533,586	-44.8%	14.7%	43.8%	38.5	117	17.9	3.1	2.0
GSIT	3.72	-0.03	-0.8%	3.72	5.9	0.0%	-37.0%	18.2%	-11.7%	-22.1%	-8.4%	-25.5%	49,533	23,197	113.5%	-7.4%	-17.5%	22.7	84	neg	1.5	0.9
HIMX	8.20	-0.13	-1.6%	5.65	9.49	45.1%	-13.6%	-21.5%	26.9%	-0.7%	2.9%	1.7%	1,947,497	2,236,650	-12.9%	6.5%	10.6%	171.9	1,410	35.0	1.9	3.2
IDCC	49.04	-1.35	-2.7%	44.28	60.69	10.8%	-19.2%	-4.1%	12.1%	-11.1%	-3.1%	-7.3%	283,470	313,552	-9.6%	-3.4%	-5.4%	36.2	1,776	17.4	4.3	3.7
IDTI	26.35	-0.59	-2.2%	14.5	29.04	81.7%	-9.3%	2.1%	8.4%	-6.5%	29.8%	34.4%	2,271,196	2,955,250	-23.1%	-3.5%	16.5%	152.2	4,010	22.0	6.3	4.9
INFN	18.12	-0.27	-1.5%	13	25.24	39.4%	-28.2%	33.6%	6.7%	-6.8%	-7.4%	23.1%	1,267,339	2,084,020	-39.2%	-11.4%	-13.6%	145.3	2,633	26.3	3.2	3.6
* INTC	34.45	-0.54	-1.5%	24.87	37.49	38.5%	-8.1%	-13.8%	-2.7%	-0.9%	14.3%	-5.1%	14,076,719	25,260,500	-44.3%	0.3%	9.9%	4,876.0	167,978	14.7	3.0	2.9
INVN	10.23	0.03	0.3%	8.46	17.56	20.9%	-41.7%	-6.5%	-0.7%	-38.5%	10.1%	-37.1%	1,456,988	1,540,280	-5.4%	-8.9%	-11.5%	92.6	947	16.2	2.2	2.5
IOTS	7.71	0.00	0.0%	5	8.5	0.0%	0.0%	54.2%	54.2%	54.2%	54.2%		36,185	0	#DIV/0!	0.0%	0.0%	14.8	114	neg	2.7	5.2
IPHI	27.02	-0.36	-1.3%	17.05	32.32	58.5%	-16.4%	-3.5%	28.2%	5.2%	12.4%	46.2%	347,245	650,312	-46.6%	-7.6%	5.2%	41.5	1,122	26.5	4.7	4.5
ISIL	12.76	-0.36	-2.7%	9.2	16.39	38.7%	-22.2%	-1.0%	-12.6%	-6.5%	9.1%	-11.8%	615,880	783,508	-21.4%	-6.3%	3.7%	137.7	1,757	19.3	3.3	1.9
IXYS	12.63	-0.33	-2.5%	10	16.76	26.3%	-24.6%	-2.2%	24.2%	-27.1%	13.2%	0.2%	129,230	123,627	4.5%	2.3%	0.8%	32.4	409	14.2	1.3	1.5
* LLTC	42.47	-0.88	-2.0%	36.41	49.57	16.6%	-14.3%	2.6%	-5.5%	-8.8%	5.3%	-6.9%	1,320,216	2,612,060	-49.5%	-4.3%	-0.7%	245.2	10,414	20.6	7.2	6.6
LSCC	6.47	-0.09	-1.4%	3.25	7.66	99.1%	-15.5%	-8.0%	-7.1%	-34.6%	68.1%	-6.1%	1,886,430	2,863,900	-34.1%	10.0%	28.8%	117.7	762	129.4	2.0	2.2
MCHP	46.54	-1.20	-2.5%	37.77	52.44	23.2%	-11.3%	8.4%	-3.0%	-9.1%	8.0%	3.2%	1,113,694	1,970,400	-43.5%	-0.4%	2.7%	217.1	10,104	17.4	4.7	4.7
MLNX	42.14	-0.35	-0.8%	32.24	52.77	30.7%	-20.1%	6.1%	7.2%	-22.2%	11.5%	-1.4%	216,979	576,152	-62.3%	-4.2%	-4.7%	48.2	2,032	15.7	3.3	2.5
MOSY	1.09	0.01	0.9%	1.06	2.67	2.8%	-59.2%	12.3%	-9.5%	-21.6%	-26.8%	-41.7%	90,577	67,319	34.5%	-12.8%	-27.4%	65.3	71	neg	18.1	1.4
MPWR	63.71	-1.07	-1.7%	40.75	69.25	56.3%	-8.0%	5.8%	-3.7%	1.0%	24.4%	28.1%	265,234	277,355	-4.4%	-2.4%	14.7%	40.7	2,592	35.2	8.1	7.3
* MRVL	8.82	0.06	0.7%	7.55	16.78	16.8%	-47.4%	1.4%	-10.3%	-31.4%	-2.5%	-39.2%	2,999,557	6,531,740	-54.1%	1.4%	-15.8%	518.5	4,573	16.0	1.5	1.0
MSSC	32.59	-0.80	-2.4%	25.36	39.56	28.5%	-17.6%	24.7%	-1.3%	-6.1%	-0.7%	14.8%	590,814	889,098	-33.5%	-6.5%	-4.5%	96.5	3,145	11.9	2.5	2.6
MTSI	40.89	-0.87	-2.1%	25.82	43.19	58.4%	-5.3%	19.1%	2.7%	-24.2%	41.0%	30.7%	377,809	400,438	-5.7%	11.4%	21.2%	55.0	2,249	31.9	5.3	5.3
* MU	14.16	0.00	0.0%	13.5	35.52	4.9%	-60.1%	-22.5%	-30.6%	-20.5%	-5.5%	-59.6%	13,164,593	24,801,700	-46.9%	-5.3%	-17.5%	1,085.0	15,364	7.2	1.0	1.2
MX	5.29	0.25	5.0%	4.14	15.72	27.8%	-66.4%	-57.9%	41.1%	-14.6%	-19.7%	-59.3%	251,683	392,720	-35.9%	3.6%	-24.9%	34.7	183	neg	0.3	neg
MXIM	38.00	-0.41	-1.1%	29.47	42.18	28.9%	-9.9%	9.2%	-0.7%	-3.3%	13.8%	19.2%	1,491,246	3,113,290	-52.1%							

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Positive:	70.6%	41.0%	12.3%	71.4%	54.5%
Negative:	29.4%	59.0%	86.4%	28.6%	45.5%
No chng:	0.0%	0.0%	1.2%	0.0%	0.0%
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NASDAQ	5,007.41	(58.44)	-1.2%	5,007.01	5,058.06	3.5%	1.8%	-7.4%	8.4%	5.7%
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				Low	High	Low %	High %						Day	Average	%	50-day	200-day			P/E	P/S	P/B
OVTI	29.02	-0.02	-0.1%	20	29.48	45.1%	-1.6%	1.4%	-0.7%	0.3%	10.5%	11.6%	954,564	838,953	13.8%	0.2%	8.4%	62.2	1,805	20.3	1.4	1.5
PMCS	11.62	-0.09	-0.8%	5.65	12.08	105.7%	-3.8%	1.3%	-7.7%	-21.0%	71.6%	26.9%	2,294,198	9,015,150	-74.6%	-1.2%	28.4%	196.9	2,288	27.0	4.3	4.0
POWI	48.63	-1.68	-3.3%	36.04	58.71	34.9%	-17.2%	0.7%	-13.2%	-6.7%	15.3%	-6.0%	92,312	163,845	-43.7%	-2.8%	9.0%	29.3	1,425	23.8	4.1	3.5
PXLW	2.38	-0.07	-2.9%	2.21	7.13	7.7%	-66.6%	10.1%	17.1%	-38.6%	-34.1%	-47.8%	548,952	315,053	74.2%	-7.4%	-42.8%	25.7	61	neg	1.0	2.1
QCOM	49.99	-0.43	-0.8%	45.93	75.3	8.8%	-33.6%	-6.7%	-9.7%	-14.2%	-7.0%	-32.8%	7,360,634	14,077,200	-47.7%	0.5%	-12.7%	1,573.0	78,626	10.8	3.1	2.5
QLGC	12.20	-0.21	-1.7%	8.37	15.93	45.8%	-23.4%	10.7%	-3.7%	-27.8%	19.0%	-8.4%	340,119	875,130	-61.1%	-2.4%	4.8%	87.4	1,066	12.2	2.2	1.5
QRVO	50.90	-0.76	-1.5%	42.24	88.35	20.5%	-42.4%	15.5%	0.7%	-43.9%	13.0%	-26.2%	1,529,187	1,666,790	-8.3%	-7.1%	-12.6%	150.8	7,676	11.9	2.8	1.3
QUIK	1.13	-0.01	-0.9%	0.95	3.29	19.0%	-65.7%	-38.5%	-17.6%	0.0%	-28.9%	-64.0%	359,926	128,936	179.2%	-8.4%	-22.1%	56.6	64	neg	3.0	2.6
RMBS	11.59	-0.28	-2.4%	9.86	15.49	17.6%	-25.2%	13.3%	15.3%	-18.6%	-1.8%	4.5%	731,971	1,409,450	-48.1%	0.7%	-7.3%	119.5	1,385	21.1	4.8	2.3
SIGM	6.32	-0.16	-2.5%	5.91	12.83	6.9%	-50.7%	8.5%	48.6%	-42.2%	-8.3%	-14.6%	322,054	605,783	-46.8%	-16.5%	-30.5%	36.8	233	16.6	1.0	1.5
SIMO	31.36	-0.78	-2.4%	20.01	37.6	56.7%	-16.6%	13.7%	28.8%	-21.1%	14.8%	32.6%	202,324	361,966	-44.1%	-3.3%	5.9%	34.6	1,086	15.4	3.2	3.1
SLAB	48.54	-1.43	-2.9%	39.33	58.54	23.4%	-17.1%	6.6%	6.4%	-23.1%	16.9%	1.9%	161,007	233,483	-31.0%	-6.6%	0.5%	42.8	2,078	22.3	3.2	2.8
SMI	5.05	-0.01	-0.2%	3.75	6.12	34.7%	-17.5%	4.6%	14.4%	-17.0%	12.5%	11.7%	34,050	41,736	-18.4%	-3.3%	4.1%	900.4	4,547	16.3	2.2	1.3
SMTC	18.92	-0.42	-2.2%	14.04	30.01	34.8%	-37.0%	-3.3%	-25.5%	-23.9%	25.3%	-31.4%	405,420	515,397	-21.3%	-1.5%	5.0%	65.2	1,234	18.2	2.5	2.4
* SNDK	75.99	-0.08	-0.1%	44.28	98.99	71.6%	-23.2%	-35.1%	-8.5%	-6.7%	39.9%	-22.4%	844,277	3,835,090	-78.0%	1.3%	18.6%	205.8	15,639	20.7	2.7	2.8
SPWR	30.01	-0.37	-1.2%	18.25	35.11	64.4%	-14.5%	21.2%	-9.3%	-29.5%	49.8%	16.2%	1,043,660	1,718,700	-39.3%	16.4%	17.3%	156.2	4,688	42.9	2.5	3.1
SQNS	2.09	-0.05	-2.3%	0.66	2.32	218.2%	-9.5%	41.2%	1.8%	-38.6%	99.0%	75.6%	76,651	131,681	-41.8%	17.8%	42.0%	59.1	124	neg	4.4	15.1
* STM	6.66	-0.15	-2.2%	6.3	9.98	5.7%	-33.3%	24.1%	-12.4%	-16.0%	-2.3%	-10.8%	506,365	825,270	-38.6%	-4.0%	-9.0%	880.7	5,865	25.6	0.8	1.3
SWKS	76.83	-2.36	-3.0%	68.71	112.88	11.8%	-31.9%	35.2%	5.9%	-19.1%	-8.8%	5.7%	2,315,801	3,881,860	-40.3%	-4.3%	-12.4%	194.8	14,966	14.6	4.6	4.7
TSEM	14.06	-0.39	-2.7%	10.68	18.29	31.7%	-23.1%	27.4%	-9.1%	-16.6%	9.2%	5.5%	407,625	444,812	-8.4%	-8.5%	-0.4%	86.8	1,220	4.6	1.3	3.8
* TSM	22.75	-0.13	-0.6%	17.32	25.77	31.4%	-11.7%	4.9%	-3.3%	-8.6%	9.6%	1.7%	3,877,937	8,568,530	-54.7%	-0.1%	3.9%	5,186.0	117,982	11.7	4.3	3.4
TSRA	30.01	-0.83	-2.7%	30	43.71	0.0%	-31.3%	12.6%	-5.7%	-14.7%	-7.4%	-16.1%	338,124	415,100	-18.5%	-7.2%	-12.5%	53.5	1,607	11.6	5.9	3.1
* TXN	54.81	-1.35	-2.4%	43.49	59.99	26.0%	-8.6%	7.0%	-10.0%	-3.8%	10.7%	2.5%	6,354,943	6,298,720	0.9%	-4.1%	4.6%	1,035.0	56,728	20.2	4.3	5.7
UMC	1.88	0.02	1.1%	1.42	2.55	32.4%	-26.3%	7.5%	-16.0%	-21.0%	16.0%	-17.2%	221,551	1,151,480	-80.8%	0.1%	1.6%	2,672.8	5,025	12.0	1.1	0.7
VSH	12.05	-0.14	-1.1%	9.22	14.61	30.7%	-17.5%	-2.3%	-15.5%	-17.0%	24.4%	-14.8%	1,263,277	1,244,610	1.5%	2.6%	9.1%	150.5	1,814	15.6	0.8	1.0
* XLNX	46.97	-0.87	-1.8%	37.2	50.72	26.3%	-7.4%	-2.3%	4.4%	-4.0%	10.8%	8.5%	1,126,717	2,528,680	-55.4%	-2.4%	5.0%	266.0	12,494	21.8	5.6	4.8