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INSIDE THE MARKET

Our Interpretation of Insiders' Top-Down Sentiment.

Oh well, I guess we were wrong. We bad. The world <u>is</u> coming to an end. Sell the house. Sell the kids. Go to cash and a fetal position, and forget about ever trying to pick a stock for your investment account again. Been nice doing this for the past 30 years, but I'm off to sell ice cream on the beach.

I DON'T THINK SO!!

This sell off is stupid. Yeah, yeah, we said as much weeks ago...but really? We just casually had our second worst weekly performance ever (with a certain week in the fall of 2008 being the worst). And for what? The global financial system isn't on the brink of collapse like a decade ago. And there is nothing in the present metrics of this economic cycle that make the extent of this sell off in equities fundamentally justifiable.

That doesn't mean "stupid" can't continue to continue. Heck, our own Insider-Based Market Indicator is now so strongly negative after last week that it would take a couple weeks of reverse action to flip it bullish again. But <u>when this market</u> <u>does turn, it is highly likely to be in a v-shaped</u> <u>pattern</u> that will turn the present indiscriminate selling of stocks into panic buying. And if you think you have a system that will allow you sit out this pain and alert you to get back in just before the melt-up, you're fooling yourself even more than those who think trade wars are easy to win.

Most of the clientele for this newsletter are professionals who have been around the block as much or more than we have, and who are champing at the bit for more client money to put to work in this stupidly over-done sell off. I've talked with several over the past week alone who are earning their money by holding their clients' hands through this turmoil, reminding them that their 401K account will be just fine when they finally retire a decade or more from now. And, <u>if anything, now is the time to buy, not sell.</u>

But what the heck is going on, and what the heck is going to spur the eventual rebound? President Trump repeated recently that he thinks the Fed Is "the only problem our economy has". No sir. Disagree.

There was nothing so awful in the Fed interest rate raise and statement last week. It was telegraphed up the wazoo, and no one believes the fed will continue to raise rates even twice next year if present GDP growth forecasts don't improve, and especially if they moderate further.

But why would GDP growth moderate further anyway? Well, THAT's the issue here.

You can't be disappointed that GDP didn't continue to run as high as it did in the first half of this year. It was so obvious that last year's tax cut

was a short-term stimulus, that even we were writing months ago in this space about being "very concerned" that the market hadn't priced in the "ramifications of the higher U.S. debt and rising interest rates expected in the next year exacerbated by a tax cut that merely pushed forward stock returns that would have occurred more normally if an already strong economy wasn't so supercharged for short-term political purposes."

But the global economy now risks falling below GDP growth from the more normal year of 2017, and the primary cause we see for that concern is the unnecessarily contentious trade wars, and, more specifically, the stupid-ass concept of using tariffs as the main weapon. If you disagree, just listen to the recent conference calls of FedEx (FDX), or our own recently added Spartan Motors (SPAR). "Tariffs" and general "trade uncertainties" are voiced as causes of both increases in costs and decreases in end demand.

These same reasons are why a bunch of the companies on our Recommended List are a shoo in to miss their Q4 numbers and lower guidance for next year—unless the trade war at least becomes more rational. Our continuing (losing) bet is that trade concerns are now way over priced into our eviscerated stocks. And that even if a certain someone doesn't personally come to see that his negotiating methods are bad for his own political health—others with some clout will see that they have to (finally) start being more forceful to make him see for their own political life.

We can all agree that the forced technology transfer the Chinese government forces on foreign firms that set up shop there is wrong, and domestic manufacturing needs to be rebuilt. We can also all probably agree that it's good to teach our children to swim. But just how one goes about making these things happen counts. Forget about equating the present tariffs to throwing your kid in the deep end of the pool. They way tariffs are being yielded by President Trump is more like boating them out a mile off shore in choppy waters and kicking them overboard. The means defeat the end goal.

Defense policy may seem disconnected with economic outcomes, but a world that is in chaos is no good for business either. So while we can all agree that it's a good thing to bring troops home as soon as possible, here too that end can only be a positive if executed properly.

Only an end to the chaotic policies emanating from the current U.S. administration can end the chaos in the stock market. Recently reduced GDP growth expectations are not part of the natu-

(Continued on page 3)





RECOMMENDED LIST

Independent research opinions on stocks I have invested in, after using insider data as a first screen to determine where to focus our fundamental research. The weekly performance of my Recommended List is calculated by averaging the weekly performances of all the positions on the List. Buy and Short-rated stocks are counted as full positions. Hold-rated stocks are counted as half positions. The weekly performance of our List is then further adjusted for the percentage of Cash we are recommending.

Removed in Sample





INSIDE THE MARKET

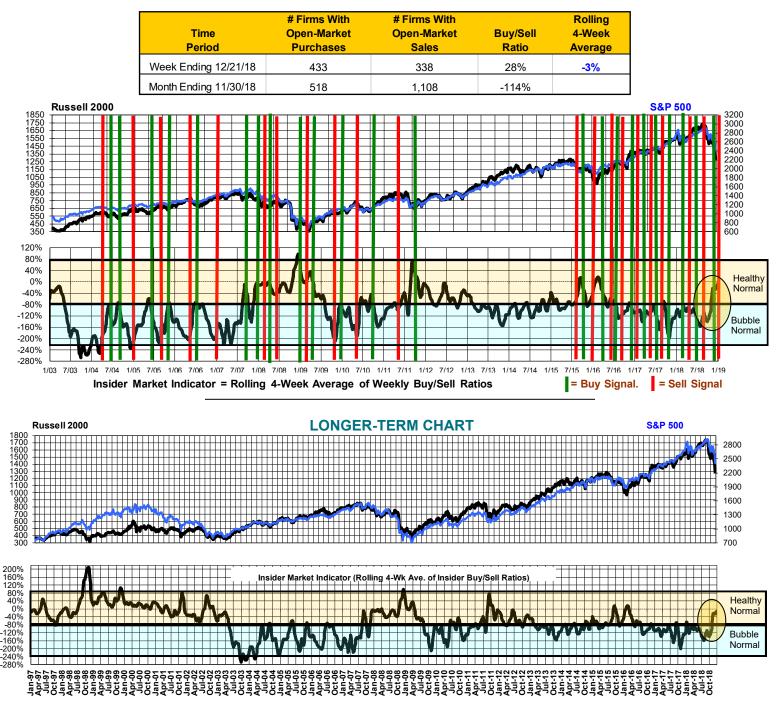
Our Interpretation of Insiders' Top-Down Sentiment.

(Continued from page 1)

ral economic cycle. If not for the trade wars dampening GDP growth expectations, there would not have been such a negative reaction in the market to the Fed rate raise. <u>The Fed has no mandate to make it easier for stupid economic policies to appear innocuous to all our economic realities</u>. The bad policy would have tanked the market soon enough no matter what the Fed did in its last meeting. And the only reason the policies didn't tank the market sooner is that GDP growth was so strong that it could take some abuse.

Like most people, my political views tend to fall in the center of the extremes. Also like most people, I like being able to apply my trade without government interference. InsiderInsights has the best insider data and Ratings methodology in the world. And using insider data in the equity research process hasn't suddenly and uniquely stopped working. But the advantage our research offers—and the very role of fundamental analysis itself—cannot add value when markets are thrown into a frenzy by bad government policy that makes all stocks move together.

We look forward to a more rational New Year. And to looking back on this truly historical period of political chaos as the buying opportunity we expect it will prove to be.



InsiderInsights Bullish Universe

Companies with Active, Significantly Bullish InsiderInsights Company Ratings

Generated with Special Screens tool at InsiderInsights.com using Pre-Programmed Screen: "InsiderInsights Bullish Universe"

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+1 12/20/18 CSBR +1 12/17/18 Lannett LCI +0.5 12/11/18 Synergy CHC SNYR +1 12/20/18 Cdar FUN +1 12/17/18 Lannett LCI +0.5 12/11/18 Synergy CHC SNYR +1 12/20/18 Synalloy SYNL +0.5 12/17/18 Insertion RGT +1 12/20/18 Synalloy SYNL +0.5 12/17/18 Insertion RGT +1 12/20/18 Stellus Cap Brands TLRD +0.5 12/17/18 Insertion RGT +0.5 12/20/18 Stellus Cap Inv SCM +1 12/14/18 RaPharm RARX +0.5 12/11/18 America CarMart CRM +0.5 12/20/18 Stellus Cap Inv SCM +1 12/14/18 Berry Petrol BRY +1 12/11/18 Autoweb AUTO +0.5 12/20/18 Berkshire Hills Banc BHLB +0.5 12/14/18 Coap +1 12/10/18 Trinis Ind TRN +	0 00 +1	12/20/18 lovance BioTherap	IOVA	0 00 +1	12/17/18 Fluent	FLNT	0 00 +1	12/11/18 Huntsman	HUN
1 12/20/18 Cedar Fair LP FUN +1 12/17/18 Magnolia Oil & Gas MGY +1 12/17/18 Lixte Biotechnology LXT +1 12/20/18 Synalloy SYNL +0.5 12/17/18 Investors RE Tr IRET +1 12/11/18 Lixte Biotechnology LXT +1 12/20/18 Synalloy SYNL +0.5 12/17/18 Investors RE Tr IRET +1 12/11/18 Lixte Biotechnology LXT +1 12/20/18 Vorthington Ind WOR +1 12/11/18 Representation CRMT CRMT +0.5 12/20/18 Vorthington Ind WOR +1 12/14/18 Representation RARX +0.5 12/11/18 Representation QRMT +0.5 12/20/18 Densision ECA +0.5 12/14/18 Berry Petrol BRY +1 12/10/18 Trinity Ind TRN +1 12/20/18 Densision ECA +0.5 12/14/18 Compass Diversified CODI +0.5 12/10/18 Trinity Ind TRN +1 12/20/18 Densision ECA +2 12/14/18 Compass Diversified CODI +0.5 12/10/18 Meta Fini CASH +0.5 12/20/18 Berkshire Hills Banc BHLB	000 +0.5	12/20/18 Scientific Games	SGMS	0 00 +1	12/17/18 Corp office Pr Tr	OFC	0 00 +1	12/11/18 Century Banc	CNBKA
1 12/20/18 Synalloy SVNL +0.5 12/17/18 Investors RE Tr IRET +1 12/11/18 Royce Global Value Tr RGT +1 12/20/18 Synalloy SVNL +0.5 12/17/18 Investors RE Tr IRET +1 12/11/18 Royce Global Value Tr RGT +0.5 12/20/18 Stellus Cap Inv SCM +1 12/11/18 Ra Pharm RAX +0.5 12/11/18 Amers Car-Mart CRMT +0.5 12/20/18 Stellus Cap Inv SCM +1 12/14/18 Fluidigm FLDM +1 12/11/18 Autoweb AUTO +0.5 12/20/18 Den Bank OPBK +2 12/14/18 Berry Petrol BRY +1 12/10/18 Quotient QTNT +1 12/20/18 Den Bank OPBK +2 12/14/18 KLX Energy Svs KLXE +1 12/10/18 Inited Continental UAL +0.5 12/20/18 PIMCO Inc Op Fd PKO +2 12/14/18 KLX Energy Svs KLXE +1 12/10/18 Inited Continental UAL +0.5 12/20/18 NN NNBR +0.5 12/14/18 Gamga & Leisure Pr GLPI +1 12/10/18 Cerecor CERC +0.5 12/20/18 NEWTEK Bus Svs <td>000 +1</td> <td>12/20/18 Champions Oncology</td> <td>CSBR</td> <td>000 +1</td> <td>12/17/18 Lannett</td> <td>LCI</td> <td>000 +0.5</td> <td>12/11/18 Synergy CHC</td> <td>SNYR</td>	0 00 +1	12/20/18 Champions Oncology	CSBR	0 00 +1	12/17/18 Lannett	LCI	000 +0.5	12/11/18 Synergy CHC	SNYR
+1 12/20/18 Tailored Brands TLRD +0.5 12/17/18 electroCore ECOR +0.5 12/11/18 Amers Car-Mart CRMT +0.5 12/20/18 Worthington Ind WOR +1 12/14/18 Ra Pharm RARX +0.5 12/11/18 B Riley Finl RILY +0.5 12/20/18 Stellus Cap Inv SCM +1 12/14/18 Berry Petrol BRY +1 12/11/18 Autoweb AUTO +0.5 12/20/18 Encision ECIA +0.5 12/14/18 Berry Petrol BRY +1 12/10/18 Quotient QTNT +1 12/20/18 Den Bank OPBK +2 12/14/18 Compass Diversified CODI +0.5 12/10/18 Trinity Ind TRN +1 12/20/18 Den Bank OPBK +2 12/14/18 Kapergy Svs KLXE +1 12/10/18 Meta Finl CASH +0.5 12/20/18 PIMCO Inc Op Fd PKO +2 12/14/18 Kapers KOP +1 12/10/18 United Continental UAL +0.5 12/20/18 NN NNBR +0.5 12/14/18 Garning & Leisure Pr GLPI +1 12/10/18 United Continental UAL +0.5 12/20/18 NN NNBR	0 00 +1	12/20/18 Cedar Fair LP	FUN	0 00 +1	12/17/18 Magnolia Oil & Gas	MGY	0 00 +1	12/11/18 Lixte Biotechnology	LIXT
+0.5 12/20/18 Worthington Ind WOR +1 12/14/18 Ra Pharm RARX +0.5 12/11/18 B Riley Fini RLY +0.5 12/20/18 Stellus Cap Inv SCM +1 12/14/18 Ra Pharm RARX +0.5 12/11/18 B Riley Fini RLY +0.5 12/20/18 Encision ECIA +0.5 12/14/18 Berry Petrol BRY +1 12/10/18 Quotient QTNT +1 12/20/18 Den Bank OPBK +2 12/14/18 CODI +0.5 12/10/18 Tinity Ind TRN +1 12/20/18 Den Bank OPBK +2 12/14/18 CODI +0.5 12/10/18 Tinity Ind TRN +0.5 12/20/18 Dirac On Pd PKO +2 12/14/18 KLXE +1 12/10/18 Inite Continental UAL +0.5 12/20/18 NN NNBR +0.5 12/14/18 Gaming & Leisure Pr GLPI +1 12/10/18 Inite Continental UAL +0.5 12/20/18 NEWTEK Bus Svs NEWT </td <td>000 +1</td> <td>12/20/18 Synalloy</td> <td>SYNL</td> <td>000 +0.</td> <td>5 12/17/18 Investors RE Tr</td> <td>IRET</td> <td>000 +1</td> <td>12/11/18 Royce Global Value Tr</td> <td>RGT</td>	0 00 +1	12/20/18 Synalloy	SYNL	0 00 +0.	5 12/17/18 Investors RE Tr	IRET	0 00 +1	12/11/18 Royce Global Value Tr	RGT
10.1 1.12/14/18	0 00 +1	12/20/18 Tailored Brands	TLRD	0 00 +0.	5 12/17/18 electroCore	ECOR	000 +0.5	12/11/18 Amers Car-Mart	CRMT
+0.512/20/18EncisionECIA+0.512/14/18Berry PetrolBRY+112/10/18QuotientQTNT+112/20/18Open BankOPBK+212/14/18Compass DiversifiedCODI+0.512/10/18Trinity IndTRN+112/20/18Berkshire Hills BancBHLB+0.512/14/18KLXE+112/10/18Meta FinlCASH+0.512/20/18PIMCOInc Op FdPKO+212/14/18KLXEFnlCASH+0.512/20/18NNNNBR+0.512/14/18Gaming & Leisure PrGLPI+112/10/18United ContinentalUAL+0.512/20/18NNNNBR+0.512/14/18Gaming & Leisure PrGLPI+112/10/18Trinseo SATSE+0.512/20/18NEWTEK Bus SvsNEWT+212/14/18Superior Energy SvsSPN+112/10/18Trinseo SATSE+112/20/18OptimizeRxOPRX+0.512/14/18Alcentra CapABDC+0.512/10/18Back Stone Minris LPBSM+0.512/19/18Repro-Med SysREPR+212/14/18Bank of CommerceBOCH+0.512/10/18AcgLe+112/19/18Repro-Med SysREPR+112/14/18Lei+0.512/10/18VEC+0.512/19/18Repro-Med SysREPR+112/14/18AlamoALG+112/10/18TrinsoTSN <td>000 +0.5</td> <td>12/20/18 Worthington Ind</td> <td>WOR</td> <td>000 +1</td> <td>12/14/18 Ra Pharm</td> <td>RARX</td> <td>000 +0.5</td> <td>12/11/18 B Riley Finl</td> <td>RILY</td>	000 +0.5	12/20/18 Worthington Ind	WOR	0 00 +1	12/14/18 Ra Pharm	RARX	000 +0.5	12/11/18 B Riley Finl	RILY
+1 12/20/18 Open Bank OPBK +2 12/14/18 Compass Diversified CODI +0.5 12/10/18 Trinity Ind TRN +1 12/20/18 Berkshire Hills Banc BHLB +0.5 12/14/18 KLX Energy Svs KLXE +1 12/10/18 Meta Finl CASH +0.5 12/20/18 PIMCO Inc Op Fd PKO +2 12/14/18 KLX Energy Svs KLXE +1 12/10/18 Meta Finl CASH +0.5 12/20/18 NN NNBR +0.5 12/14/18 Koppers KOP +1 12/10/18 United Continental UAL +0.5 12/20/18 NN NNBR +0.5 12/14/18 Gaming & Leisure Pr GLPI +1 12/10/18 Cerecor CERC +0.5 12/20/18 NEWTEK Bus Svs NEWT +2 12/14/18 Superior Energy Svs SPN +1 12/10/18 Trinseo SA TSE +1 12/20/18 OptimizeRx OPRX +0.5 12/14/18 Bank of Commerce BOC +0.5 12/10/18 Black Stone Minris LP BSM +0.5 12/19/18 Repro-Med Sys REPR +2 12/14/18 Bank of Commerce BOCH +0.5 12/10/18 Aeglea Bio Therap AGLE +1 12/19/	000 +0.5	12/20/18 Stellus Cap Inv	SCM	0 00 +1	12/14/18 Fluidigm	FLDM	0 00 +1	12/11/18 Autoweb	AUTO
+1 12/20/18 Berkshire Hills Banc BHLB +0.5 12/14/18 KLXE +1 12/10/18 Meta Finl CASH +0.5 12/20/18 PIKO Inc Op Fd PKO +2 12/14/18 KLXE +1 12/10/18 Meta Finl CASH +0.5 12/20/18 PIKO Inc Op Fd PKO +2 12/14/18 Kuppers KOP +1 12/10/18 Meta Finl CASH +0.5 12/20/18 NN NNBR +0.5 12/14/18 Gaming & Leisure Pr GLPI +1 12/10/18 Creacer CERC +0.5 12/20/18 NEWTEK Bus Svs NEWT +2 12/14/18 Superior Energy Svs SPN +1 12/10/18 Trinseo SA TSE +1 12/20/18 Netter Bus Svs NEWT +2 12/14/18 Alcentra Cap ABDC +0.5 12/10/18 Black Stone Minrls LP BSM +0.5 12/19/18 Eaton Vance EV +0.5 12/14/18 Bank of Commerce BOCH +0.5 12/10/18 VEC +1 12/19/18 Repro-Med Sy	000 +0.5	12/20/18 Encision	ECIA	0 00 +0.	5 12/14/18 Berry Petrol	BRY	0 00 +1	12/10/18 Quotient	QTNT
+0.5 12/20/18 PIMCO Inc Op Fd PKO +2 12/14/18 Koppers KOP +1 12/10/18 United Continental UAL +0.5 12/20/18 NN NNBR +0.5 12/14/18 Koppers GLPI +1 12/10/18 United Continental UAL +0.5 12/20/18 NN NNBR +0.5 12/14/18 Koppers GLPI +1 12/10/18 Cerecor CERC +0.5 12/20/18 NEWTEK Bus Svs NEWT +2 12/14/18 Superior Energy Svs SPN +1 12/10/18 Tissee SA TSE +1 12/20/18 OptimizeRx OPRX +0.5 12/14/18 Alcentra Cap ABDC +0.5 12/10/18 Black Stone Minris LP BSM +0.5 12/19/18 Eaton Vance EV +0.5 12/14/18 Bank of Commerce BOCH +0.5 12/10/18 Agles Bio Therap AGLE +1 12/19/18 Repro-Med Sys REPR +2 12/14/18 Le +0.5 12/10/18 Vecc +0.5 12/10/18 Netrus	0 00 +1	12/20/18 Open Bank	OPBK	••• +2	12/14/18 Compass Diversified	CODI	000 +0.5	12/10/18 Trinity Ind	TRN
Index	0 00 +1	12/20/18 Berkshire Hills Banc	BHLB	0 00 +0.	5 12/14/18 KLX Energy Svs	KLXE	0 00 +1	12/10/18 Meta Finl	CASH
+0.512/20/18NEWTEK Bus SvsNEWT+212/14/18Superior Energy SvsSPN+112/10/18Trinseo SATSE+112/20/18OptimizeRxOPRX+0.512/14/18Superior Energy SvsSPN+112/10/18Trinseo SATSE+112/20/18OptimizeRxOPRX+0.512/14/18Superior Energy SvsSPN+112/10/18Trinseo SATSE+0.512/19/18Eaton VanceEV+0.512/14/18Alcentra CapABDC+0.512/10/18Black Stone Minrls LPBSM+0.512/19/18Eaton VanceEV+0.512/14/18Bank of CommerceBOCH+0.512/10/18Aeglea Bio TherapAGLE+112/19/18Repro-Med SysREPR+212/14/18Lands EndLE+0.512/10/18VectrusVEC+0.512/19/18Esperion TherapESPR+112/14/18AlamoALG+112/10/18Trinson XTROX+212/19/18New Mtn FinanceNMFC+112/14/18Bay Banks of VirginiaBAYK+0.512/10/18Typon FoodsTSN+0.512/19/18New Mtn FinanceNMFC+0.512/14/18Randolph BancRNDB+112/10/18Centerstate BankCSFL+0.512/19/18Dynasil of AmerDYSL+0.512/14/18WideOpenWestWOW+0.512/10/18Ocular TherapeutixOCUL+0.512/19/1	000 +0.5	12/20/18 PIMCO Inc Op Fd	PKO	••• +2	12/14/18 Koppers	KOP	0 00 +1	12/10/18 United Continental	UAL
+112/20/18OptimizeRxOPRX+0.512/14/18AlcentraCapABDC+0.512/10/18Black Stone Minrls LPBSM+0.512/19/18Eaton VanceEV+0.512/14/18Bank of CommerceBOCH+0.512/10/18AegleaBio TherapAGLE+112/19/18Repro-Med SysREPR+212/14/18Bank of CommerceBOCH+0.512/10/18AegleaBio TherapAGLE+0.512/19/18Repro-Med SysREPR+212/14/18Le+0.512/10/18VectrusVEC+0.512/19/18Esperion TherapESPR+112/14/18AlamoALG+112/10/18TronoxTROX+212/19/18New Mtn FinanceNMFC+112/14/18Bay Banks of VirginiaBAYK+0.512/10/18Typon FoodsTSN+0.512/19/18AstrotechASTC+0.512/14/18Randolph BancRNDB+112/10/18Centerstate BankCSFL+0.512/19/18Dynasil of AmerDYSL+0.512/14/18OptiNoseOPTN+112/10/18Summit MaterialsSUM+0.512/19/18QuantaSvsPWR+0.512/14/18WideOpenWestWOW+0.512/10/18Ocular TherapeutixOCUL+112/19/18H&E+0.512/14/18Full House ResortsFLL+0.512/10/18EquelsAPO+112/19/18Foresta	000 +0.5	12/20/18 NN	NNBR	0 00 +0.	5 12/14/18 Gaming & Leisure Pr	GLPI	0 00 +1	12/10/18 Cerecor	CERC
+0.512/19/18Eaton VanceEV+0.512/14/18Bank of CommerceBOCH+0.512/10/18Aglea Bio TherapAGLE+112/19/18Repro-Med SysREPR+212/14/18Bank of CommerceBOCH+0.512/10/18Aglea Bio TherapAGLE+0.512/19/18Repro-Med SysREPR+212/14/18Lands EndLE+0.512/10/18VectrusVEC+0.512/19/18Esperion TherapESPR+112/14/18AlamoALG+112/10/18TronoxTROX+212/19/18New Mtn FinanceNMFC+112/14/18Bay Banks of VirginiaBAYK+0.512/10/18Typon FoodsTSN+0.512/19/18AstrotechASTC+0.512/14/18Randolph BancRNDB+112/10/18Centerstate BankCSFL+0.512/19/18Dynasil of AmerDYSL+0.512/14/18OptiNoseOPTN+112/10/18Summit MaterialsSUM+0.512/19/18Quanta SvsPWR+0.512/14/18WideOpenWestWOW+0.512/10/18Cular TherapeutixOCUL+112/19/18H&E+0.512/14/18Full House ResortsFLL+0.512/10/18Equity BancEQBK+112/19/18ForestarFOR+112/13/18Mohawk IndMHK+112/7/18Apolo Global MgtAPO	000 +0.5	12/20/18 NEWTEK Bus Svs	NEWT	••• +2	12/14/18 Superior Energy Svs	SPN	0 00 +1	12/10/18 Trinseo SA	TSE
+1 12/19/18 Repro-Med Sys REPR +2 12/14/18 Let +0.5 12/10/18 Vectrus VEC +0.5 12/19/18 Esperion Therap ESPR +1 12/14/18 Lands End LE +0.5 12/10/18 Vectrus VEC +0.5 12/19/18 Esperion Therap ESPR +1 12/14/18 Alag +1 12/10/18 Vectrus TROX +2 12/19/18 New Mtn Finance NMFC +1 12/14/18 Bay Banks of Virginia BAYK +0.5 12/10/18 Tyson Foods TSN +0.5 12/19/18 Astrotech ASTC +0.5 12/14/18 Radolph Banc RNDB +1 12/10/18 CSFL +0.5 12/19/18 Dynasil of Amer DYSL +0.5 12/14/18 OptiNose OPTN +1 12/10/18 Summit Materials SUM +0.5 12/19/18 Quanta Svs PWR +0.5 12/14/18 WideOpenWest WOW +0.5 12/10/18 Ocular Therapeutix OCUL +1 12/19/18 H&E Equipment S	0 00 +1	12/20/18 OptimizeRx	OPRX	0 00 +0.	5 12/14/18 Alcentra Cap	ABDC	000 +0.5	12/10/18 Black Stone Minrls LP	BSM
+0.5 12/19/18 Esperion Therap ESPR +1 12/14/18 Alag +1 12/10/18 Tronox TROX +2 12/19/18 New Mtn Finance NMFC +1 12/14/18 Bay Banks of Virginia BAYK +0.5 12/10/18 Tronox TROX +0.5 12/19/18 New Mtn Finance NMFC +1 12/14/18 Bay Banks of Virginia BAYK +0.5 12/10/18 Tronox TROX +0.5 12/19/18 Astrotech ASTC +0.5 12/14/18 Bay Banks of Virginia BAYK +0.5 12/10/18 Tronox TSN +0.5 12/19/18 Astrotech ASTC +0.5 12/14/18 Randolph Banc RNDB +1 12/10/18 Centerstate Bank CSFL +0.5 12/19/18 Dynasil of Amer DYSL +0.5 12/14/18 OPTN +1 12/10/18 Summit Materials SUM +0.5 12/19/18 Quanta Svs PWR +0.5 12/14/18 WideOpenWest WOW +0.5 12/10/18 Ocular Therapeutix OCUL +1	000 +0.5	12/19/18 Eaton Vance	EV	0 00 +0.	5 12/14/18 Bank of Commerce	BOCH	000 +0.5	i 12/10/18 Aeglea Bio Therap	AGLE
+2 12/19/18 New Mtn Finance NMFC +1 12/14/18 Bay Banks of Virginia BAYK +0.5 12/10/18 Tyson Foods TSN +0.5 12/19/18 Astrotech ASTC +0.5 12/14/18 Banks of Virginia BAYK +0.5 12/10/18 Tyson Foods TSN +0.5 12/19/18 Astrotech ASTC +0.5 12/14/18 RNDB +1 12/10/18 Centerstate Bank CSFL +0.5 12/19/18 Dynasil of Amer DYSL +0.5 12/14/18 OPTN +1 12/10/18 Summit Materials SUM +0.5 12/19/18 Quanta Svs PWR +0.5 12/14/18 WOW +0.5 12/10/18 CSFL +1 12/19/18 Quanta Svs PWR +0.5 12/14/18 WOW +0.5 12/10/18 Coular Therapeutix OCUL +1 12/19/18 H&E Quanta Svs HEES +0.5 12/14/18 FIL +0.5 12/10/18 Equity Banc	0 00 +1	12/19/18 Repro-Med Sys	REPR	••• +2	12/14/18 Lands End	LE	000 +0.5	12/10/18 Vectrus	VEC
+0.5 12/19/18 Astrotech ASTC +0.5 12/14/18 Randolph Banc RNDB +1 12/10/18 Centerstate Bank CSFL +0.5 12/19/18 Dynasil of Amer DYSL +0.5 12/14/18 OPTN +1 12/10/18 Centerstate Bank CSFL +0.5 12/19/18 Dynasil of Amer DYSL +0.5 12/14/18 OPTN +1 12/10/18 Summit Materials SUM +0.5 12/19/18 Quanta Svs PWR +0.5 12/14/18 WideOpenWest WOW +0.5 12/10/18 Ocular Therapeutix OCUL +1 12/19/18 H&E Equipment Svs HEES +0.5 12/14/18 Full House Resorts FLL +0.5 12/10/18 Equity Banc EQBK +1 12/19/18 Forestar FOR +1 12/13/18 MHK HK +1 12/7/18 Apolo Global Mgt APO	0 00 +0.5	12/19/18 Esperion Therap	ESPR	0 00 +1	12/14/18 Alamo	ALG	0 00 +1	12/10/18 Tronox	TROX
+0.5 12/19/18 Dynasil of Amer DYSL +0.5 12/14/18 OptiNose OPTN +1 12/10/18 Summit Materials SUM +0.5 12/19/18 Dynasil of Amer DYSL +0.5 12/14/18 OptiNose OPTN +1 12/10/18 Summit Materials SUM +0.5 12/19/18 Quanta Svs PWR +0.5 12/14/18 WOW +0.5 12/10/18 OCUL +1 12/19/18 H&E Quanta Svs PWR +0.5 12/14/18 WOW +0.5 12/10/18 OCUL +1 12/19/18 H&E Quanta Svs HES +0.5 12/14/18 FILL +0.5 12/10/18 Goular Therapeutix OCUL +1 12/19/18 Forestar FOR +1 12/13/18 Mohawk Ind MHK +1 12/7/18 Apolo Global Mgt APO	••• +2	12/19/18 New Mtn Finance	NMFC	0 00 +1	12/14/18 Bay Banks of Virginia	BAYK	000 +0.5	12/10/18 Tyson Foods	TSN
+0.5 12/19/18 Quanta Svs PWR +0.5 12/14/18 WideOpenWest WOW +0.5 12/10/18 Ocular Therapeutix OCUL +1 12/19/18 H&E +0.5 12/14/18 Full House Resorts FLL +0.5 12/10/18 Gcular Therapeutix OCUL +1 12/19/18 H&E +0.5 12/14/18 Full House Resorts FLL +0.5 12/10/18 Equity Banc EQBK +1 12/19/18 Forestar FOR +1 12/13/18 MHK +1 12/7/18 Apollo Global Mgt APO	0 00 +0.5	12/19/18 Astrotech	ASTC	0 00 +0.	5 12/14/18 Randolph Banc	RNDB	0 00 +1	12/10/18 Centerstate Bank	CSFL
+1 12/19/18 H&E Equipment Svs HEES +0.5 12/14/18 Full House Resorts FLL +0.5 12/10/18 Equity Banc EQBK +1 12/19/18 Forestar FOR +1 12/13/18 Mohawk Ind MHK +1 12/7/18 Apollo Global Mgt APO	0 00 +0.5	12/19/18 Dynasil of Amer	DYSL	0 00 +0.	5 12/14/18 OptiNose	OPTN	0 00 +1	12/10/18 Summit Materials	SUM
+1 12/19/18 Forestar FOR +1 12/13/18 Mohawk Ind MHK +1 12/7/18 Apollo Global Mgt APO	0 00 +0.5	12/19/18 Quanta Svs	PWR	0 00 +0.	5 12/14/18 WideOpenWest	WOW	000 +0.5	12/10/18 Ocular Therapeutix	OCUL
	0 00 +1	12/19/18 H&E Equipment Svs	HEES	0 00 +0.	5 12/14/18 Full House Resorts	FLL	000 +0.5	12/10/18 Equity Banc	EQBK
●●● +2 12/19/18 Flaherty & Crumrine Dy DFP ●●● +2 12/13/18 Aramark ARMK ●○○ +1 12/7/18 Clearone CLRO	0 00 +1	12/19/18 Forestar	FOR	0 00 +1	12/13/18 Mohawk Ind	MHK	0 00 +1	12/7/18 Apollo Global Mgt	APO
	••• +2	12/19/18 Flaherty & Crumrine Dy	DFP	••• +2	12/13/18 Aramark	ARMK	0 00 +1	12/7/18 Clearone	CLRO
• 1 12/19/18 Catalyst Pharm CPRX • 2 12/13/18 Live Oak Banc LOB • 1 12/7/18 US Auto Parts PRTS	0 00 +1	12/19/18 Catalyst Pharm	CPRX	••• +2	12/13/18 Live Oak Banc	LOB	0 00 +1	12/7/18 US Auto Parts	PRTS
+1 12/19/18 First Commonwealth FCF +1 12/13/18 Chesapeake Energy CHK +1 12/7/18 Telenav TNAV	0 00 +1	12/19/18 First Commonwealth	FCF	0 00 +1	12/13/18 Chesapeake Energy	СНК	0 00 +1	12/7/18 Telenav	TNAV
● ○ ○ +0.5 12/19/18 Nuveen AMT-Free Muni NVG ● ○ ○ +0.5 12/13/18 Hartford Finl Svs HIG ● ○ ○ +0.5 12/7/18 Horizon Banc HBNC	000 +0.5	12/19/18 Nuveen AMT-Free Muni	NVG	0 00 +0.	5 12/13/18 Hartford Finl Svs	HIG	000 +0.5	12/7/18 Horizon Banc	HBNC

See last page for the Key to Ratings, Titles & Transaction Type codes.

InsiderInsights Bullish Universe (Continued)

Companies with Active, Significantly Bullish InsiderInsights Company Ratings

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••0.5 11/30/18 Allegiance Banc ABTX ••0.5 11/19/18 Spirit of Taxas Banc STX8 ••0.5 11/13/18 Red Violet RUVT ••2.11/29/18 PacWest Banc PACW ••1.11/19/18 Realogy RLGY ••1.11/13/18 BlueLinx BXC ••0.5 11/29/18 FAT Brands FAT ••1.2 11/19/18 Aclescalex Pharm ACRX ••1.5 11/13/18 BlueLinx BXC ••0.5 11/29/18 Solhebys BID •0.5 11/19/18 Allergan pic AGN •1.5 11/13/18 Amzon Global H2N ••1.5 11/29/18 Maingress Energy LP TGE •1.1 11/19/18 Agua Amer MC •0.5 11/13/18 West Banccoration WTBA ••1.5 11/29/18 Tailgress Energy LP TGE •1.1 11/16/18 Agua Amer WC •0.5 11/19/18 Townsquare Media TSO ••1.1 11/29/18 Core Moking Tech CMT •1.1 11/16/18 Agua Amer WC •1.0 11/19/18 Tiesta Restaurant FFRGI ••1.1 11/28/18 Core Moking Tech CMT •1.1 11/16/18 Agua Amer WC •1.1 11/19/18 Tiesta Restaurant FFRGI ••1.1 11/28/18 Coleo CTE •1.1 11/16/18 Indicata INDO •1.1 11/19/18 Comming World CWH ••1.1 11/28/18 Kimbelin WST •1.0.	000 +0.5 12/3/18 Plu			+1	11/19/18 Apple Hospitality Reit		000	n.		•	
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11/10/16 11/16/16 11/16/16 <td< td=""><td>000 +1 11/28/18 Kin</td><td>nbell Royalty LP KRP</td><td>000</td><td>+0.5</td><td>11/16/18 Overseas Shipholding</td><td>OSG</td><td>ŏ</td><td>+2</td><td>11/9/18</td><td>Stifel Finl</td><td>SF</td></td<>	000 +1 11/28/18 Kin	nbell Royalty LP KRP	000	+0.5	11/16/18 Overseas Shipholding	OSG	ŏ	+2	11/9/18	Stifel Finl	SF
11 11/27/18 Contango Oil & Gas MCF +1 11/15/18 Contango Oil & Gas MCF VER +1 11/18/18 Matter MBR WER +1 11/18/18 Matter MCF VER +1 11/18/18 MCF VER +1 11/18/18 MCF VER +1 11/18/18 MCR WER +1 11/18/18 MCF VER +1 11/18/18 MCF </td <td>000 +0.5 11/28/18 NG</td> <td>L Energy LP NGL</td> <td>000</td> <td>+1</td> <td>11/16/18 Chembio Diagn</td> <td>CEMI</td> <td>0</td> <td>) +1</td> <td>11/9/18</td> <td>Deluxe</td> <td>DLX</td>	000 +0.5 11/28/18 NG	L Energy LP NGL	000	+1	11/16/18 Chembio Diagn	CEMI	0) +1	11/9/18	Deluxe	DLX
+0.5 11/27/18 Provention Bio PRVB +1 11/15/18 Greenhill GHL +1 11/8/18 UFI +1 11/26/18 Sunrun RUN +1 11/15/18 Greenhill GHL +1 11/8/18 UFI +2 11/26/18 Sunrun RUN +1 11/15/18 Greenhill GE +1 11/8/18 UNA VEI +2 11/26/18 Bacon Roofing Supply BECN +1 11/15/18 Greenal Electric GE +1 11/8/18 UNA UNA +0.5 11/26/18 Augustive Therap AQST +1 11/15/18 Westlake Chemical LP WLKP +1 11/8/18 UNA +0.5 11/26/18 CNB Finl CCNE +1 11/15/18 Bilington Res Mort Reit EARN +2 11/8/18 UNA +1 11/23/18 US Concrete USCR +1 11/15/18 Houson Wire & Cable HWCC +0.5 11/8/18 Internap INAP +1 11/23/18 Rigrason RYI +0.5 11/15/18	000 +0.5 11/27/18 Am	nyris AMR:	s 000	+0.5	11/16/18 Presidio	PSDO	00) +1	11/9/18	SmartFinancial	SMBK
Initial <t< td=""><td>OO +1 11/27/18 Co</td><td>ntango Oil & Gas MCF</td><td>000</td><td>+1</td><td>11/15/18 Cheniere Energy</td><td>LNG</td><td>000</td><td>) +1</td><td>11/8/18</td><td>LyondellBasell Ind NV</td><td>LYB</td></t<>	OO +1 11/27/18 Co	ntango Oil & Gas MCF	000	+1	11/15/18 Cheniere Energy	LNG	000) +1	11/8/18	LyondellBasell Ind NV	LYB
+211/26/18Beacon Roofing SupplyBECN+111/16/18Interm	000 +0.5 11/27/18 Pro	ovention Bio PRVI	0 00	+1	11/15/18 Greenhill	GHL	000) +1	11/8/18	Unifi	UFI
+111/26/18Aquestive TherapAQST+111/15/18Westlake Chemical LPWLKP+111/8/18UnivarUNVR+0.511/26/18CNB FinlCCNE+111/15/18Ellington Res Mort ReitEARN+211/8/18PRGX GlobalPRGX+111/23/18US ConcreteUSCR+111/15/18Ellington Res Mort ReitEARN+211/8/18PRGX GlobalPRGX+111/23/18US ConcreteUSCR+111/15/18Usa Compression LPUSAC+111/8/18InternapINAP+111/23/18Citizens FinlCFG+111/15/18Houston Wire & CableHWCC+0.511/8/18German AMER BancGABC+0.511/23/18RyersonRYI+0.511/15/18Arcus BiosciencesRCUS+111/8/18Uscan MaterialsVMC+0.511/21/18Fidelity Natl FinlFNF+111/11/18Air Prod & ChemicalsAPD+0.511/8/18Vulcan MaterialsVMC+0.511/21/18Phillips 66PSX+111/14/18BISH NetworkDISH+111/17/18Heritage InsuranceHRTG+111/21/18Apollo EndosurgeryAPEN+111/14/18GreenSkyGSKY+111/17/18Hudson Pacific PropHPP+211/21/18OlinOLN+0.511/14/18CASI+0.511/17/18AdvanSixASIX+111/21/18Flatform Spec	000 +1 11/26/18 Su	nrun RUN	000	+1	11/15/18 Infinity Pharm	INFI	000	+1	11/8/18	Nabors Ind	NBR
+111/2/10 Aquestive HierapAdd f+111/10/10 Westate Chemical E1Werkit+111/10/10 With Control+0.5 11/26/18 CNB FinlCCNE+1111/15/18 Ellington Res Mort ReitEARN+211/8/18 PRGX GlobalPRGX+111/23/18 US ConcreteUSCR+111/15/18 Usa Compression LPUSAC+111/8/18InternapINAP+111/23/18 Citizens FinlCFG+111/15/18 Houston Wire & CableHWCC+0.511/8/18German AMER BancGABC+0.511/23/18 RyersonRYI+0.511/15/18 Arcus BiosciencesRCUS+111/8/18US Xpress EnterprisesUSX+111/21/18 Fidelity Nati FinlFNF+111/14/18 Air Prod & ChemicalsAPD+0.511/8/18Vulcan MaterialsVMC+0.511/21/18 Phillips 66PSX+111/14/18 DISH NetworkDISH+111/17/18Heirage InsuranceHRTG+111/21/18 Apollo EndosurgeryAPEN+111/14/18 GreenSkyGSKY+111/7/18Hudson Pacific PropHPP+211/21/18 ArcimotoFUV+111/14/18 RiceBran TechRIBT+111/7/18AdvanSixASIX+111/20/18 Platform Specialty ProdPAH+111/14/18 Houghton MifflinHMC+0.511/7/18ImmunoGenIMGN+211/20/18 ASGNASGN+0.511/14/18 Houghton MifflinHIMC+0.511/7/18ImmunoGenIMGN	••• +2 11/26/18 Be	acon Roofing Supply BEC	000 I	+1	11/15/18 General Electric	GE	000) +1	11/8/18	Cooper-Standard	CPS
+111/23/18 US ConcreteUSCR+111/15/18 Usa Compression LPUSAC+111/8/18 InternapINAP+111/23/18 Citizens FinlCFG+111/15/18 Houston Wire & CableHWCC+0.511/8/18German AMER BancGABC+0.511/23/18 RyersonRYI+0.511/15/18 Arcus BiosciencesRCUS+111/8/18US Xpress EnterprisesUSX+111/21/18 Fidelity Natl FinlFNF+111/14/18 Air Prod & ChemicalsAPD+0.511/8/18Vulcan MaterialsVMC+0.511/21/18 Phillips 66PSX+111/14/18 DISH NetworkDISH+111/8/18Eagle Banc MontanaEBMT+111/21/18 Apollo EndosurgeryAPEN+111/14/18 GreenSkyGSKY+111/17/18Heritage InsuranceHRTG+211/21/18 OlinOLN+0.511/14/18 CASI PharmCASI+0.511/71/18AdvanSixASIX+111/20/18 Platform Speciality ProdPAH+111/14/18 KingstoneKINS+211/7/18CB Finl SvsCBFV+211/20/18 ASGNASGNASGN+0.511/14/18 Houghton MifflinHIMC+0.511/7/18ImmunoGenIMGN	+1 11/26/18 Aq	uestive Therap AQS	000	+1	11/15/18 Westlake Chemical LP	WLKP	000) +1	11/8/18	Univar	UNVR
+111/23/18 Citizens FinlCFG+111/15/18 Houston Wire & CableHWCC+0.511/8/18German AMER BancGABC+0.511/23/18 RyersonRYI+0.511/15/18 Arcus BiosciencesRCUS+111/8/18US Xpress EnterprisesUSX+111/21/18 Fidelity Natl FinlFNF+111/14/18 Air Prod & ChemicalsAPD+0.511/8/18Vulcan MaterialsVMC+0.511/21/18 Phillips 66PSX+111/14/18 DISH NetworkDISH+111/8/18Eagle Banc MontanaEBMT+111/21/18 Hill IntlHIL+111/14/18 GEOGEO+111/7/18Heritage InsuranceHRTG+111/21/18 Apollo EndosurgeryAPEN+111/14/18 GreenSkyGSKY+111/7/18Hudson Pacific PropHPP+211/21/18 OlinOLN+0.511/14/18 RiceBran TechRIBT+111/7/18KamanKAMN+311/20/18 Platform Speciality ProdPAH+111/14/18 Houghton MifflinHIMC+0.511/7/18ImmunoGenIMGN+211/20/18 ASGNASGNASGN+0.511/14/18 Houghton MifflinHIMC+0.511/7/18ImmunoGenIMGN	000 +0.5 11/26/18 CN	B Finl CCN	000	+1	11/15/18 Ellington Res Mort Reit	EARN	õ	+2	11/8/18	PRGX Global	PRGX
+0.5 11/23/18 Ryrson RYI +0.5 11/15/18 Arcus Biosciences RCUS +1 11/8/18 US Xpress Enterprises US X +1 11/21/18 Fidelity Nati Finil FNF +1 11/14/18 APD +0.5 11/8/18 US Xpress Enterprises US X +0.5 11/21/18 Fidelity Nati Finil FNF +1 11/14/18 APD +0.5 11/8/18 US Xpress Enterprises US X +0.5 11/21/18 Fidelity Nati Finil FNF +1 11/14/18 APD +0.5 11/8/18 US Xpress Enterprises US X +0.5 11/21/18 Fhillips 66 PS X +1 11/14/18 DISH +1 11/8/18 Us Xpress Enterprises US X +1 11/21/18 Hill Intil HIL +1 11/14/18 GEO GEO +1 11/7/18 Heritage Insurance HRTG +1 11/21/18 Apollo Endosurgery APEN +1 11/14/18 GERY GSKY +1 11/7/18 AdvanSix ASIX +1 11/21/18 Olin	+1 11/23/18 US	Concrete USCI	ع ٥٥٥	+1	11/15/18 Usa Compression LP	USAC			11/8/18	Internap	INAP
+1 11/21/18 Fidelity Natl Finl FNF +1 11/14/18 Air Prod & Chemicals APD +0.5 11/8/18 Vulcan Materials VMC +0.5 11/21/18 Phillips 66 PSX +1 11/14/18 DISH +1 11/8/18 Vulcan Materials VMC +1 11/21/18 Phillips 66 PSX +1 11/14/18 DISH +1 11/8/18 Vulcan Materials VMC +1 11/21/18 Phillips 66 PSX +1 11/14/18 DISH +1 11/8/18 Vulcan Materials VMC +1 11/21/18 Hill HIL +1 11/14/18 DISH +1 11/8/18 Vulcan Materials VMC +1 11/21/18 Hill Intil HIL +1 11/14/18 GEO GEO +1 11/7/18 Heritage Insurance HRTG +1 11/21/18 Apollo Endosurgery APEN +1 11/14/18 GERO GSKY +1 11/7/18 AdvanSix ASIX +1 11/21/18 Olin OLN +0.5 11/14/18 RiceBran Tech	+1 11/23/18 Cit	izens Finl CFG	000	+1	11/15/18 Houston Wire & Cable	HWCC	000) +0.5	11/8/18	German AMER Banc	GABC
+0.5 11/21/18 Pillips 66 PSX +1 11/11/4/18 DISH +1 11/8/18 Eagle Banc Montana EBMT +1 11/21/18 Hill HIL +1 11/14/18 GEO GEO +1 11/7/18 Heritage Insurance HRTG +1 11/21/18 Apollo Endosurgery APEN +1 11/14/18 GreenSky GSKY +1 11/7/18 Hudson Pacific Prop HPP +2 11/21/18 Olin OLN +0.5 11/14/18 CASI +0.5 11/7/18 AdvanSix ASIX +1 11/21/18 Arcimoto FUV +1 11/14/18 RiceBran Tech RIBT +1 11/7/18 Kaman KAMN +3 11/20/18 Platform Speciality Prod PAH +1 11/14/18 Kingstone KINS +2 11/7/18 CB Finl Svs CBFV +2 11/20/18 ASGN ASGN +0.5 11/14/18 Hudgeton HIHC +0.5 11/7/18 ImmunoGen IMGN	000 +0.5 11/23/18 Ry	erson RYI	000	+0.5	11/15/18 Arcus Biosciences	RCUS	000	+1	11/8/18	US Xpress Enterprises	USX
+1 11/21/18 Hill Intl HIL +1 11/14/18 GEO GEO +1 11/7/18 Heritage Insurance HRTG +1 11/21/18 Apollo Endosurgery APEN +1 11/14/18 GEO GEO +1 11/7/18 Heritage Insurance HRTG +2 11/21/18 Apollo Endosurgery APEN +1 11/14/18 GreenSky GSKY +1 11/7/18 Hudson Pacific Prop HPP +2 11/21/18 Olin OLN +0.5 11/14/18 CASI Pharm CASI +0.5 11/7/18 AdvanSix ASIX +1 11/21/18 Arcimoto FUV +1 11/14/18 RiceBran Tech RIBT +1 11/7/18 Kaman KAMN +3 11/20/18 Platform Speciality Prod PAH +1 11/14/18 Kingstone KINS +2 11/7/18 CB Finl Svs CBFV +2 11/20/18 ASGN ASGN +0.5 11/14/18 Houghton Mifflin HMHC +0.5 11/7/18 ImmunoGen IMGN	+1 11/21/18 Fic	delity Natl Finl FNF	000	+1	11/14/18 Air Prod & Chemicals	APD	000	+0.5	11/8/18	Vulcan Materials	VMC
+1 11/21/18 Apollo Endosurgery APEN +1 11/1/1/18 GreenSky GSKY +1 11/1/1/18 Hudson Pacific Prop HPP +2 11/21/18 Olin OLN +0.5 11/14/18 GreenSky GSKY +0.5 11/7/18 Hubson Pacific Prop HPP +1 11/21/18 Olin OLN +0.5 11/14/18 GreenSky GSKY +0.5 11/7/18 Hubson Pacific Prop HPP +1 11/21/18 Olin OLN +0.5 11/14/18 CASI Pharm CASI +0.5 11/7/18 AdvanSix ASIX +1 11/21/18 Arcimoto FUV +1 11/14/18 RiceBran Tech RIBT +1 11/7/18 Kaman KAMN +3 11/20/18 Platform Specialty Prod PAH +1 11/14/18 Kingstone KINS +2 11/7/18 CB Finl Svs CBFV +2 11/20/18 ASGN ASGN +0.5 11/14/18 Houghton Mifflin HMHC +0.5 11/7/18 ImmunoGen IMGN	000 +0.5 11/21/18 Ph	illips 66 PSX	000	+1	11/14/18 DISH Network	DISH	000) +1	11/8/18	Eagle Banc Montana	EBMT
+2 11/21/18 Olin OLN +0.5 11/14/18 CASI Pharm CASI +0.5 11/7/18 AdvanSix ASIX +1 11/21/18 Arcimoto FUV +1 11/14/18 RiceBran Tech RIBT +1 11/7/18 Kaman KAMN +3 11/20/18 Platform Speciality Prod PAH +1 11/14/18 Kingstone KINS +2 11/7/18 CB Finl Svs CBFV +2 11/20/18 ASGN ASGN +0.5 11/14/18 Houghton Mifflin HMHC +0.5 11/7/18 ImmunoGen IMGN	+1 11/21/18 Hill	l Inti HIL	000	+1	11/14/18 GEO	GEO	000	+1	11/7/18	Heritage Insurance	HRTG
+1 11/21/18 Arcimoto FUV +1 11/14/18 RiceBran Tech RIBT +1 11/7/18 Kaman KAMN +3 11/20/18 Platform Speciality Prod PAH +1 11/14/18 RiceBran Tech RIBT +1 11/7/18 Kaman KAMN +2 11/20/18 ASGN ASGN +0.5 11/14/18 Houghton Mifflin HIMC +0.5 11/7/18 ImmunoGen IMGN	•••• +1 11/21/18 Ap	ollo Endosurgery APE		+1	11/14/18 GreenSky	GSKY	000	+1	11/7/18	Hudson Pacific Prop	HPP
+3 11/20/18 Platform Speciality Prod PAH +1 11/14/18 Kingstone KINS +2 11/7/18 CB Finl Svs CBFV +2 11/20/18 ASGN ASGN +0.5 11/14/18 Houghton Mifflin HMHC +0.5 11/7/18 ImmunoGen IMGN	+2 11/21/18 Oli	n OLN	000	+0.5	11/14/18 CASI Pharm	CASI	000	+0.5	11/7/18	AdvanSix	ASIX
●● +2 11/20/18 ASGN ASGN +0.5 11/14/18 Houghton Mifflin HMHC ●●● +0.5 11/7/18 ImmunoGen IMGN		cimoto FUV	000	+1	11/14/18 RiceBran Tech	RIBT	000	+1	11/7/18	Kaman	KAMN
	+3 11/20/18 Pla	atform Specialty Prod PAH	000	+1	11/14/18 Kingstone	KINS	00	+2	11/7/18	CB Finl Svs	CBFV
● ○ ○ +1 11/20/18 Amer Airlines AAL ● ○ ○ +1 11/14/18 Ellington Finl EFC ● ○ ○ +1 11/6/18 Bunge BG	+2 11/20/18 AS	GN ASG	N 000	+0.5	11/14/18 Houghton Mifflin	HMHC	000	+0.5	11/7/18	ImmunoGen	IMGN
	+1 11/20/18 Am	ner Airlines AAL	000	+1	11/14/18 Ellington Finl	EFC	000	+1	11/6/18	Bunge	BG

InsiderInsights Bullish Universe (Continued)

Companies with Active, Significantly Bullish InsiderInsights Company Ratings Generated with Special Screens tool at InsiderInsights.com using <u>Pre-Programmed Screen</u>: "InsiderInsights Bullish Universe"

Insider	Rating	C	Tislian	Inside		Rating	C	Tielier	Insid		Rating	C	Tielier
Rating*	Date	Company	Ticker	Rating	/	Date	Company	Ticker	Ratin		Date	Company	Ticker
000	11/6/18		PFE	000	-	10/31/18	-	GMS	000			Sensient Tech	SXT
0 00 +1		Churchill Downs	CHDN	000			StoneMor LP	STON	000			Orrstown Finl Svs	ORRF
0 00 +0.5	11/6/18	Altra Industrial Motion	AIMC	000	+1	10/31/18	Capstead Mort	CMO	000	+1	10/24/18	Crown Castle Intl	CCI
+2	11/6/18	McDermott Intl	MDR	000	+3	10/31/18	Visteon	VC	000	+2	10/24/18	First Finl Banc	FFBC
0 00 +0.5	11/6/18	Principal Finl	PFG	000	+1	10/31/18	Sherwin-Williams Co	SHW	000	+1	10/23/18	Freds	FRED
0 00 +0.5	11/6/18	Teradata	TDC		+0.5	10/31/18	Century Aluminum Co	CENX	000	+0.5	10/23/18	Aclaris Therap	ACRS
0 00 +0.5	11/6/18	City office Reit	CIO	000	+0.5	10/30/18	Caterpillar	CAT	000	+1	10/22/18	First Horizon Natl	FHN
●OO ^r +1	11/6/18	Essential Prop Rlty Tr	EPRT	000	+1	10/30/18	Lakeland Finl	LKFN	000	+1	10/22/18	Krystal Biotech	KRYS
000 +0.5	11/6/18	Timken Co	TKR	000	+1	10/30/18	Stock Yards Banc	SYBT	000	+2	10/22/18	AZZ	AZZ
000 +0.5	11/6/18	Peapack-Gladstone Fin	PGC	000	+2	10/30/18	Investar	ISTR	000	+1	10/19/18	Texas Cap Banc	TCBI
●OO +1	11/6/18	Amarillo Biosciences	AMAR	000	+2	10/30/18	Hubbell	HUBB	000	+1	10/18/18	Intl Flavors & Frag	IFF
••• +3	11/5/18	Encana	ECA	000	+0.5	10/30/18	Two Rivers Banc	TRCB	000	+0.5	10/18/18	Planet Green	PLAG
••• +2	11/5/18	IBM	IBM	000	+1	10/29/18	Ballantyne Strong	BTN	000	+0.5	10/18/18	FedEx	FDX
0 00 +1	11/5/18	Amer Axle & Manufact	AXL	000	+1	10/29/18	AT&T	Т	000	+2	10/17/18	Ladenburg Thalmann	LTS
••• +2	11/5/18	E*TRADE Finl	ETFC	000	+1	10/29/18	FNB	FNB	000	+1	10/17/18	Bridge Banc	BDGE
0 00 +0.5	11/5/18	Capstar Finl	CSTR	000	+1	10/26/18	Cadence Banc	CADE	000	+1	10/17/18	RPM Intl	RPM
●OO +1	11/5/18	Spartan Motors	SPAR	000	+0.5	10/26/18	FleetCor Tech	FLT	000	+1	10/17/18	FS Banc	FSBW
0 00 +1	11/5/18	QTS RIty Tr	QTS	000	+0.5	10/26/18	United Rentals	URI	000	+0.5	10/16/18	Bassett Furniture Ind	BSET
●OO +1	11/5/18	Hersha Hospitality Tr	HT	000	+2	10/26/18	PolyOne	POL	000	+0.5	10/15/18	PIMCO Dynamic Inc Fd	PDI
0 00 +0.5	11/5/18	Severn Banc	SVBI	000	+1	10/26/18	Amer Natl Bank	AMNB	000	+2	10/11/18	Malvern Banc	MLVF
0 00 +0.5	11/5/18	SB One Banc	SBBX	000	+0.5	10/26/18	Proteostasis Therap	PTI	000	+1	10/9/18	Kala Pharm	KALA
0 00 +0.5	11/5/18	Summit Hotel Prop	INN	000	+1	10/26/18	Paychex	PAYX	000	+1	10/9/18	Meet	MEET
●OO +1	11/2/18	Insmed	INSM	000	+0.5	10/26/18	Sterling Banc	SBT	000	+1	10/9/18	KemPharm	KMPH
●OO +1	11/2/18	Columbia Finl	CLBK	000	+0.5	10/26/18	MGIC Inv	MTG	000	+1	10/2/18	Verastem	VSTM
0 00 +1	11/2/18	Mid Penn Banc	MPB	000	+0.5	10/25/18	Odonate Therap	ODT	000	+0.5	10/1/18	Encore Wire	WIRE
0 00 +0.5	11/2/18	Southern Natl Banc	SONA	000	+1	10/25/18	JMP	JMP	000	+0.5	10/1/18	Novan	NOVN
0 00 +0.5	11/1/18	Nuverra Environ	NES	000	+1	10/25/18	S VF	VFC	000	+1	9/28/18	Dollar Tree	DLTR
0 00 +1	11/1/18	RumbleON	RMBL	000	+0.5	10/25/18	Sterling Banc	STL	000	+0.5	9/28/18	RegeneRx Biopharm	RGRX
0 00 +1	11/1/18	Riverview Banc	RVSB	000	+2	10/25/18	Synovus Finl	SNV	000	+0.5	9/24/18	ACADIA Pharm	ACAD
0 00 +0.5	11/1/18	ACCO Brands	ACCO	000	+0.5	10/25/18	Home Banc	HOMB					

InsiderInsights Bearish Universe

Companies with Active, Significantly Bearish InsiderInsights Company Ratings Generated with Special Screens tool at InsiderInsights.com using <u>Pre-Programmed Screen</u>: "InsiderInsights Bearish Universe"

Insider	Rating		Insider	Rating			Insid	er	Rating		
Rating*	Date Company	Ticker	Rating*	Date	Company	Ticker	Ratin	g*	Date	Company	Ticker
000 -0.5	12/21/18 Bankwell Finl	BWFG	000 -0.5	12/4/18	AnaptysBio	ANAB	000	-1	11/9/18	Antero Res	AR
	12/20/18 Peoples United Finl	PBCT	0 00 -1	12/4/18	Redfin	RDFN	000	-0.5	11/9/18	Blue Apron	APRN
000 -0.5	12/19/18 Roku	ROKU	0 00 -1	12/3/18	Forescout Tech	FSCT	000	-0.5	11/8/18	Alliance Data Sys	ADS
000 -0.5	12/19/18 Vera Bradley	VRA	000 -0.5	11/29/18	3 Noodles	NDLS	000	-1	11/8/18	Fitbit	FIT
•• • -2	12/19/18 Stitch Fix	SFIX	0 00 -1	11/29/18	3 Nantkwest	NK	•••	-2	11/5/18	Snap	SNAP
	12/19/18 SiteOne Landscape	SITE	000 -0.5	11/21/18	3 elf Beauty	ELF	000	-1	11/2/18	Ditech	DHCP
000 -0.5	12/19/18 Carbon Black	CBLK	000 -0.5	11/21/18	3 eBay	EBAY	000	-0.5	11/1/18	Freeport-McMoRan	FCX
000 -0.5	12/19/18 Citi Trends	CTRN	000 -0.5	11/21/18	3 Oasis Petrol	OAS	000	-0.5	10/22/18	China Com Credit	GLG
●00 _1	12/17/18 Cognizant Tech	CTSH	0 00 -1	11/20/18	3 Castlight Health	CSLT	000	-1	10/18/18	Flex Pharma	FLKS
●OO -1	12/14/18 TherapMD	TXMD	000 -0.5	11/20/18	3 Ameri	AMRH	000	-0.5	10/17/18	Genco Shipping	GNK
000 -0.5	12/13/18 Veritone	VERI	0 00 -1	11/19/18	3 Facebook	FB	000	-0.5	10/16/18	Iteris	ITI
000 -0.5	12/11/18 Applied Minerals	AMNL	000 -0.5	11/19/18	3 Lear	LEA	000	-0.5	10/9/18	Fortune Brands	FBHS
000 -0.5	12/10/18 Keane	FRAC	000 -0.5	11/16/18	3 ICU Medical	ICUI	00	-1	10/4/18	Acorda Therap	ACOR
000 -0.5	12/6/18 Arista Networks	ANET	000 -0.5	11/14/18	3 Qorvo	QRVO	000	-0.5	10/2/18	Lennar	LEN
●OO -1	12/6/18 Ocwen Finl	OCN	000 -0.5	11/14/18	3 Buckeye LP	BPL					

InsiderInsights Ratings of Latest Insider Purchases

InsiderInsights Ratings of Companies with Form 4 Purchases and Accumulations Filed at the SEC in the Past Week

Sorted by: Insider Rating, then Total Transaction Value.

Generated with Special Screens tool at InsiderInsights.com using Pre-Programmed Screen: "Ratings of Latest Purchases"

					Total				Latest	Ave.		Mkt	10-Day
Insider		Rating		Trans	Purch	Shares			Trans	Purch	Recent	Сар	Ave Vol
Rating*		Date Company	Ticker	Type(s)*	Value	Bought #	Ins	siders - Title(s)*	Date	Price	Price	(mm)	(m)
••••	-3	11/20/18 Platform Specialty Pro	d PAH	В	\$3,225,400	300,000	2	BO,DIR,GC,SEC,VP	12/20/18	\$10.75	\$9.78	2,820	2,230
••• +	-3	12/21/18 CorMedix	CRMD	В	\$221,210	170,000	3	DIR	12/20/18	\$1.30	\$1.14	120	2,190
••••	-3	11/5/18 Encana	ECA	В	\$98,921	17,500	3	CEO,DIR,PR	12/20/18	\$5.65	\$5.38	5,106	19,010
••• +	-2	12/21/18 Lions Gate Ent	LGF.A	В	\$11,100,981	779,900	1	BO,DIR	12/21/18	\$14.23	\$14.00	2,909	1,880
••• +	-2	12/21/18 Dova Pharm	DOVA	В	\$2,934,259	468,631	5	BO,CEO,CFO,DIR,PR	12/21/18	\$6.26	\$6.80	192	870
••• +	-2	12/19/18 New Mtn Finance	NMFC	В	\$2,517,671	200,805	3	COO,DIR,PR	12/17/18	\$12.54	\$12.25	932	570
••• +	-2	12/14/18 Compass Diversified	CODI	B,JB*	\$1,428,188	96,175	3	BO,O	12/17/18	\$14.85	\$12.39	742	370
•••• +	-2	12/14/18 Koppers	KOP	B,OE*	\$1,254,144	73,748	4	CFO,OO,TR,VP	12/20/18	\$17.01	\$16.80	345	420
••• +	-2	12/18/18 Howard Hughes	HHC	В	\$699,715	7,161	2	PR	12/17/18	\$97.71	\$92.16	3,966	280
••• +	-2	12/17/18 Johnson & Johnson	JNJ	В	\$502,691	3,748	3	DIR	12/14/18	\$134.12	\$128.09	343,535	20,890
••• +	-2	12/19/18 Flaherty & Crumrine D	y DFP	В	\$199,690	10,000	2	A,CEO,CFO,DIR,PR	12/20/18	\$19.97	\$19.47	373	180
••• +	-2	11/7/18 CB Finl Svs	CBFV	В	\$69,073	2,750	2	DIR	12/20/18	\$25.12	\$23.13	125	10
000 +	-1	12/21/18 W R Grace	GRA	В	\$101,731,584	1,672,968	1	BO	12/21/18	\$60.81	\$60.72	4,068	900
000 +	-1	12/20/18 Axovant Sciences	AXON	JB*	\$80,000,000	80,000,000	8	BO	12/18/18	\$1.00	\$0.99	154	2,050
•00 +	-1	10/18/18 Intl Flavors & Frag	IFF	В	\$56,260,337	420,700	1	BO	12/19/18	\$133.73	\$128.21	13,670	1,140
0 00 +	-1	12/17/18 Medicines	MDCO	В	\$19,819,932	999,363	3	CEO,DIR,VP	12/20/18	\$19.83	\$17.26	1,275	2,430
0 00 +	-1	11/26/18 Sunrun	RUN	OB,B	\$6,996,500	720,000	3	BO,CB,CEO,DIR	12/20/18	\$9.72	\$10.90	1,219	2,000
000 +	-1	11/19/18 AVEO Pharm	AVEO	В	\$6,969,960	4,500,000	9	BO	12/21/18	\$1.55	\$1.49	187	1,620
000 +	-1	12/13/18 Chesapeake Energy	CHK	В	\$5,574,630	2,655,000	5	CEO,CFO,DIR,VP	12/20/18	\$2.10	\$1.90	1,736	50,130
000 +	-1	12/19/18 Repro-Med Sys	REPR	B,JB*	\$4,068,205	3,346,677	1	BO,DIR	12/17/18	\$1.22	\$1.43	55	30
000 +	-1	12/17/18 Barings BDC	BBDC	AB,B	\$4,026,335	435,600	3	AO,BO,CFO,FO	12/21/18	\$9.24	\$8.83	453	420
000 +	-1	12/17/18 Magnachip Semi	MX	В	\$3,606,750	515,000	1	BO	12/13/18	\$7.00	\$6.16	213	330
0 00 +	-1	12/13/18 Mohawk Ind	MHK	В	\$3,051,713	25,937	2	DIR	12/14/18	\$117.66	\$113.21	8,400	1,140
000 +	-1	10/9/18 Meet	MEET	В	\$2,598,646	652,221	1	BO	12/20/18	\$3.98	\$3.84	284	960
000 +	-1	10/31/18 GMS	GMS	B,OB	\$1,973,133	131,160	3	CFO,DIR,TR,VP	12/14/18	\$15.04	\$14.66	604	1,160
000 +	-1	11/23/18 US Concrete	USCR	В	\$1,684,443	50,000	1	DIR	12/17/18	\$33.69	\$32.83	552	460
000 +	-1	12/17/18 Sprott Focus Tr	FUND	В	\$1,678,546	275,000	1	BO,DIR	12/18/18	\$6.10	\$5.51	143	140
000 +	-1	12/20/18 Synalloy	SYNL	В	\$1,545,506	91,466	2	BO,CEO,DIR,PR	12/20/18	\$16.90	\$16.95	150	40
0 00 +	-1	11/20/18 Lazydays	LAZY	В	\$1,060,720	198,627	1	BO,DIR	12/14/18	\$5.34	\$4.96	42	30
0 00 +	-1	11/9/18 Camping World	CWH	В	\$1,059,779	70,108	1	BO	12/14/18	\$15.12	\$11.24	987	1,020
000 +	-1	11/28/18 Otelco	OTEL	В	\$1,037,154	65,130	1	BO	12/20/18	\$15.92	\$15.80	54	20
000 +	-1	11/6/18 Churchill Downs	CHDN	В	\$762,221	2,950	2	DIR	12/18/18	\$258.38	\$233.73	3,172	100
0 00 +	-1	12/18/18 E W Scripps Co	SSP	AB	\$746,673	47,324	5	BO,DIR	12/21/18	\$15.78	\$15.15	1,222	540
0 00 +	-1	11/14/18 DISH Network	DISH	AB	\$742,950	25,000	1	DIR,VP	12/19/18	\$29.72	\$25.02	11,701	3,940
000 +	-1	12/21/18 Mistras	MG	В	\$510,656	35,000	2	DIR	12/20/18	\$14.59	\$14.38	411	90
000 +	-1	11/28/18 Celgene	CELG	OB	\$507,873	8,600	1	DIR	12/19/18	\$59.06	\$60.92	42,598	7,310
•00 +	-1	12/20/18 Enterprise Prod LP	EPD	В	\$496,100	20,000	2	CEO,DIR	12/20/18	\$24.81	\$24.35	53,148	7,330
•00 +	-1	12/17/18 Fluent	FLNT	JB*	\$457,499	130,714	1	BO,DIR,PR	12/14/18	\$3.50	\$3.20	241	280
•00 +	-1	12/21/18 Caesars Ent	CZR	В	\$399,507	60,675	2	DIR	12/21/18	\$6.58	\$6.03	4,039	24,320
•00 +	-1	12/11/18 Century Banc	CNBKA	В	\$393,027	5,388	1	во	12/18/18	\$72.94	\$70.65	255	10
•00 +	-1	11/19/18 XOMA	XOMA	В	\$354,793	25,000	1	BO	12/17/18	\$14.19	\$11.34	95	100
•00 +	-1	12/19/18 Forestar	FOR	В	\$342,743	26,000	2	CEO,DIR	12/18/18	\$13.18	\$13.08	549	120
0 00 +	-1	12/20/18 Cedar Fair LP	FUN	В	\$293,520	6,000	1	CEO,PR	12/19/18	\$48.92	\$47.52	2,682	220
•00 +	-1	12/18/18 Huttig Building Prod	HBP	В	\$223,410	90,000	2	DIR	12/17/18	\$2.48	\$2.21	58	130
		12/17/18 Magnolia Oil & Gas	MGY	В	\$223,400	20,000	1	GC,SEC,VP	12/14/18	\$11.17	\$10.66	2,662	1,160
•00 +	-1	12/21/18 Washington Prime	WPG	В	\$220,683	45,747	2	CEO,DIR	12/20/18	\$4.82	\$5.01	932	4,300
•00 +	-1	11/15/18 Infinity Pharm	INFI	В	\$209,913	175,000	1	во	12/13/18	\$1.20	\$1.01	57	480
0 00 +	-1	12/19/18 H&E Equipment Svs	HEES	В	\$200,700	10,000	1	DIR	12/18/18	\$20.07	\$19.69	704	680
•00 +	-1	12/19/18 Catalyst Pharm	CPRX	В	\$193,600	80,000	2	CEO,DIR,PR	12/19/18	\$2.42	\$1.99	205	2,350
0 00 +	-1	12/17/18 Lannett	LCI	В	\$176,800	35,000	2	DIR	12/14/18	\$5.05	\$4.71	185	1,660

See last page for the Key to Ratings, Titles & Transaction Type codes.



InsiderInsights Ratings of Companies with Form 4 Purchases and Accumulations Filed at the SEC in the Past Week

Sorted by: Insider Rating, then Total Transaction Value.

Generated with Special Screens tool at InsiderInsights.com using Pre-Programmed Screen: "Ratings of Latest Purchases"

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					Total				Latest	Ave.		Mkt	10-Day
Insider	r	Rating		Trans	Purch	Shares			Trans	Purch	Recent	Сар	Ave Vol
Rating		Date Company	Ticker	Type(s)*	Value		# Ins	siders - Title(s)*	Date	Price	Price	(mm)	(m)
000	+1	12/17/18 Corp office Pr Tr	OFC	B	\$172,733	U		CEO,DIR,PR	12/14/18	\$22.68	\$21.42	2,332	1,290
		12/7/18 US Auto Parts	PRTS	В	\$167,868	136,936	1	BO	12/14/18	\$1.23	\$1.02	36	130
		12/10/18 Cerecor	CERC	В	\$165,408	50,000	1	BO.DIR	12/18/18	\$3.31	\$3.20	131	70
		12/20/18 Tailored Brands	TLRD	B	\$150,710	11,304		CFO,GC,TR,VP	12/19/18	\$13.33	\$13.12	657	4,480
		12/20/18 Champions Oncology	CSBR	В	\$148,800	20,000	1		12/19/18	\$7.44	\$7.35	84	120
A OO		12/20/18 Berkshire Hills Banc	BHLB	B	\$145,740	5,225		CEO,DIR,GC,PR,VP	12/20/18	\$27.89	\$26.69	1,212	530
		12/21/18 Terra Tech	TRTC	B	\$129,840	200,000	3	CEO,COO,DIR,PR,SEC		\$0.65	\$20.03	49	1,360
		12/20/18 Open Bank	OPBK	OE*,OB	\$129,040	45,000	2	DIR,0		\$2.87	\$8.13	101	50
		•	TTS	<u>ое ,ов</u>			2		12/19/18			299	650
		11/19/18 Tile Shop	IOVA	В	\$107,000	20,000		BO,DIR DIR	12/14/18	\$5.35 \$8.65	\$5.66	925	
		12/20/18 lovance BioTherap			\$103,796		1		12/18/18		\$7.51		1,850
		12/19/18 First Commonwealth	FCF	В	\$97,917	8,000		DIR	12/18/18	\$12.24	\$11.63	1,156	920
		12/10/18 Centerstate Bank	CSFL	В	\$92,860	4,425		CB,CEO,DIR,O,PR	12/19/18	\$20.99	\$20.24	1,936	750
		11/16/18 Innodata	INOD	B	\$92,527	57,921	1	BO	12/21/18	\$1.60	\$1.62	42	40
		11/20/18 Oasis Midstream LP	OMP	B	\$85,550	5,000		DIR	12/19/18	\$17.11	\$15.30	421	180
		12/17/18 Ligand Pharm	LGND	OB	\$74,528	3,400	1	GC,SEC,VP	12/17/18	\$21.92	\$132.50	2,816	650
A AAA		11/13/18 Basic Energy Svs	BAS	В	\$73,647	15,000	1	BO	12/14/18	\$4.91	\$4.16	111	570
		12/18/18 Catchmark Timber Tr	CTT	В	\$55,730	7,000	2		12/14/18	\$7.96	\$7.07	347	520
000	+1	11/5/18 Hersha Hospitality Tr	HT	В	\$50,525	3,000	1	COO,PR	12/21/18	\$16.84	\$16.81	663	450
000	+1	12/21/18 Reata Pharm	RETA	В	\$46,287	888	1	DIR	12/20/18	\$52.13	\$50.01	1,486	220
000 -	+0.5	12/18/18 Global Medical Reit	GMRE	JB*	\$29,999,997	3,333,333	3	BO,DIR	12/14/18	\$9.00	\$9.00	232	420
000 -	+0.5	12/18/18 VBI Vaccines	VBIV	JB*	\$21,999,999	15,714,285	2	BO,DIR	12/17/18	\$1.40	\$1.22	111	1,250
000 -	+0.5	12/20/18 Scientific Games	SGMS	В	\$9,162,000	600,000	1	BO,DIR	12/21/18	\$15.27	\$15.13	1,388	1,650
000 -	+0.5	12/21/18 AllianceBernstein LP	AB	В	\$6,354,141	254,675	1	0	12/21/18	\$24.95	\$24.29	2,341	810
000 -	+0.5	12/17/18 Hyster-Yale Materials	HY	AB	\$4,689,840	76,284	16	CB,DIR,O	12/20/18	\$61.48	\$58.08	962	60
000 -	+0.5	12/19/18 Esperion Therap	ESPR	В	\$2,864,070	60,000	1	BO	12/17/18	\$47.73	\$39.26	1,053	710
000 -	+0.5	12/19/18 Astrotech	ASTC	OB	\$2,037,333	866,950	1	BO,CEO,DIR	12/7/18	\$2.35	\$5.00	21	1,680
000 -	+0.5	12/17/18 HD Supply	HDS	В	\$1,849,580	50,000	1	CB,CEO,DIR,PR	12/14/18	\$36.99	\$36.10	6,430	2,900
000 -	+0.5	12/21/18 Limestone Banc	LMST	В	\$1,514,302	114,494	2	DIR	12/20/18	\$13.23	\$13.10	98	20
A		12/19/18 Dynasil of Amer	DYSL	JB*	\$1,450,000	1,450,000	1	CEO,DIR,PR	12/18/18	\$1.00	\$0.90	16	110
A00		12/10/18 Trinity Ind	TRN	В	\$1,298,519	59,239	1	BO,DIR	12/13/18	\$21.92	\$19.81	2,898	2,630
A ~ ~ ~		12/18/18 PVH	PVH	B	\$1,053,854	11,050		CB,CEO,DIR	12/14/18	\$95.37	\$88.72	6,719	1,480
000		12/19/18 Quanta Svs	PWR	B	\$998,923	34,060		CEO,CFO,COO,DIR,PF		\$29.33	\$28.25	4,139	1,920
000		12/20/18 Worthington Ind	WOR	B	\$916,750	25,000	1	DIR	12/19/18	\$36.67	\$34.80	2,059	430
000		12/21/18 TPG RE Finance Tr	TRTX	AB	\$851,279	46,000		CEO,DIR,PR,VP	12/20/18	\$18.51	\$18.26	1,227	210
000		12/17/18 Libbey	LBY	B	\$735,800	130,000	2	BO	12/20/18	\$10.51	\$10.20	92	140
A		•		В		,							
		12/20/18 Stellus Cap Inv	SCM		\$721,454			CCO,CEO,CFO,DIR,PF		\$12.53	\$12.22	195	240
A O O		12/20/18 Encision	ECIA	JB*	\$700,000	1,750,000		BO,DIR	12/19/18	\$0.40	\$0.33	4	20
000		12/11/18 Synergy CHC	SNYR	JB*	\$673,769	1,225,034		BO,CEO,DIR,PR	12/10/18	\$0.55	\$0.14	12	20
A		12/3/18 Entercom Comms	ETM	В	\$643,740	100,000	1	CB,DIR	12/14/18	\$6.44	\$5.42	773	1,290
		10/25/18 Odonate Therap	ODT	В	\$586,639	40,000		BO,CEO,DIR	12/18/18	\$14.67	\$12.86	345	90
A		12/21/18 Delta Air Lines	DAL	В	\$415,104	8,000		DIR	12/20/18	\$51.89	\$49.45	33,904	7,490
A		12/21/18 Schlumberger Limited	SLB	В	\$375,500	10,000		VP	12/20/18	\$37.55	\$35.70	49,437	20,370
	+0.5	12/19/18 Eaton Vance	EV	В	\$348,862	10,000	1	DIR	12/18/18	\$34.89	\$33.36	3,902	1,510
	+0.5	12/21/18 SEACOR Marine	SMHI	В	\$278,330	23,000	1	CEO,DIR,PR	12/21/18	\$12.10	\$12.05	246	70
	+0.5	12/21/18 Harvest Cap Credit	HCAP	В	\$246,392	25,842	1	CEO,DIR	12/21/18	\$9.53	\$9.45	61	20
	+0.5	12/20/18 PIMCO Inc Op Fd	PKO	В	\$229,774	9,500	1	0	12/21/18	\$24.19	\$23.27	349	90
000 -	+0.5	12/18/18 Cue Biopharma	CUE	В	\$169,189	33,102	2	DIR	12/20/18	\$5.11	\$4.61	93	110
000	+0.5	12/17/18 Investors RE Tr	IRET	В	\$151,049	28,995	3	CEO,CFO,CIO,DIR,PR	12/19/18	\$5.21	\$4.91	655	660
000	+0.5	12/21/18 Savara	SVRA	В	\$149,994	23,517	1	CEO,DIR	12/21/18	\$6.38	\$6.27	220	360
A		12/18/18 South Jersey Ind	SJI	В	\$148,818	4,946		CB,DIR,TR,VP	12/19/18	\$30.09	\$28.49	2,436	860
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Sorted by: Insider Rating, then Total Transaction Value.

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					Total				Latest	Ave.		Mkt	10-Day
Inside	er	Rating		Trans	Purch	Shares			Trans	Purch	Recent	Сар	Ave Vol
Rating]*	Date Company	Ticker	Type(s)*	Value	Bought	# Ins	siders - Title(s)*	Date	Price	Price	(mm)	(m)
000	+0.5	12/19/18 Nuveen AMT-Free Mu	uniNVG	В	\$139,874	10,300	1	0	12/17/18	\$13.58	\$13.69	2,773	800
000	+0.5	12/21/18 Natl HealthCare	NHC	OB	\$132,325	2,500	1	DIR	12/20/18	\$52.93	\$74.49	1,135	60
000	+0.5	12/21/18 Central Securities	CET	В	\$113,624	4,570	2	PR,VP	12/20/18	\$24.86	\$24.36	613	40
000	+0.5	12/18/18 Akorn	AKRX	В	\$112,000	25,000	1	GC,SEC,VP	12/14/18	\$4.48	\$3.45	433	4,340
000	+0.5	12/21/18 Acacia Research	ACTG	В	\$102,763	35,000	1	DIR	12/20/18	\$2.94	\$2.91	145	220
000	+0.5	10/26/18 Sterling Banc	SBT	В	\$88,529	10,000	1	CB,CEO,DIR	12/13/18	\$8.85	\$7.25	384	80
000	+0.5	12/20/18 NN	NNBR	В	\$68,150	11,000	2	DIR,O	12/18/18	\$6.20	\$5.84	246	860
000	+0.5	12/20/18 NEWTEK Bus Svs	NEWT	В	\$66,851	4,000	1	CB,CEO,DIR	12/20/18	\$16.71	\$15.68	296	370
000	+0.5	12/12/18 HCI	HCI	В	\$63,447	1,215	1	DIR	12/18/18	\$52.22	\$48.75	447	140
A		12/19/18 HV Banc	HVBC	В	\$58,208	3,870	2	COO,DIR,VP	12/19/18	\$15.04	\$14.83	34	10
000	+0.5	12/10/18 Ocular Therapeutix	OCUL	В	\$55,000	10,000	1	0	12/14/18	\$5.50	\$4.16	171	640
A		12/18/18 Mustang Bio	MBIO	В	\$53,805	15,500	1	CEO,DIR,PR	12/10/18	\$3.47	\$2.36	64	100
		12/17/18 electroCore	ECOR	В	\$48,300	10,000	1	0	12/13/18	\$4.83	\$5.88	173	160
A		12/19/18 180 Degree Cap	TURN	В	\$46,250	25,000	1	CB,CEO,DIR	12/18/18	\$1.85	\$1.83	57	90
000		12/21/18 Globalstar	GSAT	B,JB*		155,806,043	1	BO,CEO,DIR	12/21/18	\$0.36	\$0.47	591	10,620
000		11/19/18 Eagle Bulk Shipping	EGLE	B	\$3,786,246	831,610	1	BO	12/19/18	\$4.55	\$4.28	311	440
000		12/21/18 TESARO	TSRO	OE*	\$3,299,333	86.672		COO,DIR,PR,VP	12/20/18	\$38.07	\$72.69	4,001	440
000			REV	B	\$2,964,413	/ -	2					,	
000		12/10/18 Revion		OE*	., ,	125,000		BO,DIR	12/21/18	\$23.72	\$22.78	1,204	150
000		12/20/18 D R Horton			\$2,709,000	300,000	1	CB,DIR	12/18/18	\$9.03 \$22.98	\$33.62	12,650	5,400
000		12/18/18 NuStar Energy LP	NS	B	\$2,298,460	100,000	1	DIR	12/17/18		\$21.15	2,264	940
000		12/20/18 Red Lion Hotels	RLH	B	\$2,219,723	303,675	1	BO	12/20/18	\$7.31	\$7.29	179	180
000		12/13/18 Independent Bank	IBTX	OB,B	\$2,099,795	118,381	3	BO,CB,CEO,DIR,LO,PI		\$17.74	\$45.52	1,387	290
000		12/21/18 Soleno Therap	SLNO	JB*	\$2,000,060	1,245,135	1	BO	12/19/18	\$1.61	\$1.57	34	110
000		12/17/18 Radius Health	RDUS	В	\$1,854,168	123,000	2	BO,SO,VP	12/20/18	\$15.07	\$13.36	608	1,000
000		11/7/18 Del Friscos Rest	DFRG	В	\$1,641,316	253,000	1	BO	12/20/18	\$6.49	\$6.54	218	650
000	+0	12/20/18 CNX Res	CNX	В	\$1,195,000	100,000	1	DIR	12/19/18	\$11.95	\$11.69	2,380	3,590
000	+0	12/14/18 Cumulus Media	CMLS	В	\$1,187,130	110,000	1	BO	12/17/18	\$10.79	\$10.11	167	40
000	+0	12/7/18 J M Smucker Co	SJM	В	\$1,080,843	11,000	1	DIR	12/19/18	\$98.26	\$96.10	10,932	1,440
000	+0	12/19/18 LCI Ind	LCII	В	\$948,600	15,000	1	DIR	12/17/18	\$63.24	\$61.46	1,550	340
000	+0	12/17/18 Evolus	EOLS	В	\$946,977	74,400	3	DIR	12/17/18	\$12.73	\$10.57	288	460
000	+0	12/21/18 Strongbridge Biophar	ma SBBP	В	\$943,375	237,079	1	BO	12/21/18	\$3.98	\$3.89	184	330
000	+0	12/17/18 Blue Hills Banc	BHBK	OB	\$862,055	61,269	1	CEO,PR	12/17/18	\$14.07	\$21.19	569	170
000	+0	12/21/18 Arthur J Gallagher	AJG	OE*,B	\$835,592	19,200	1	VP	12/19/18	\$43.52	\$71.06	13,050	1,410
000	+0	12/18/18 DSP	DSPG	AB	\$833,751	77,168	1	DIR	12/21/18	\$10.80	\$10.65	236	110
000	+0	12/21/18 Alpha & Omega Semi	AOSL	AB	\$710,401	71,570	1	BO,CEO,DIR	12/21/18	\$9.93	\$9.72	231	130
000	+0	12/21/18 Natl Commerce	NCOM	OE*	\$684,790	47,000	2	CB,CEO,CFO,DIR,PR	12/19/18	\$14.57	\$34.39	711	90
000	+0	10/30/18 Safety Inc & Growth	SAFE	AB	\$652,748	33,800	1	BO	12/21/18	\$19.31	\$19.55	356	40
000	+0	12/20/18 FalconStor Software	FALC	OB	\$606,758	606,758,144	2	BO,DIR	12/18/18	\$0.00	\$0.04	4	90
000	+0	12/18/18 Document Security Sy	ys DSS	JB*	\$600,000	612,245	1	BO,DIR	12/17/18	\$0.98	\$0.75	13	90
000	+0	10/2/18 Natl Fuel Gas Co	NFG	OE*	\$597,600	20,000	1	COO	12/13/18	\$29.88	\$53.18	4,572	710
000	+0	12/18/18 Bausch Health	BHC	В	\$584,018	25,440	1	PR	12/14/18	\$22.96	\$18.11	6,335	6,440
000		12/20/18 FIRST FinI NW	FFNW	AB	\$439,838	29,226		DIR	12/20/18	\$15.05	\$15.17	166	30
000		12/17/18 Sealed Air	SEE	В	\$420,126	12,500		CEO,DIR,PR,VP	12/17/18	\$33.61	\$33.64	5,279	3,010
000		12/14/18 SeaChange Intl	SEAC	B	\$360,142	294,279	1	BO	12/20/18	\$1.22	\$1.18	42	360
000		12/17/18 KA MLP Midstream In		В	\$313,682	22,000	2	DIR,PR,VP	12/21/18	\$14.26	\$12.96	1,496	1,760
000		12/21/18 Douglas Emmett	DEI	В	\$297,296	8,700	1	DIR	12/20/18	\$34.17	\$34.04	5,785	1,040
000		12/21/18 Prosperity Banc	PB	В	\$295,700	5,000	1	DIR,VCB	12/20/18	\$59.14	\$58.07	4,056	540
000		11/16/18 Tellurian	TELL	B	\$285,660	42,320	1	DIR	12/20/18	\$6.75	\$5.97	1,436	1,720
000		12/18/18 Marchex	MCHX	B	\$283,000	102,259		BO	12/20/18	\$2.77	\$2.63	1,430	90
000													
000	τU	12/20/18 AXT	AXTI	OB	\$278,974	115,199	1	CEO,DIR	12/19/18	\$2.42	\$4.06	161	550

See last page for the Key to Ratings, Titles & Transaction Type codes.

InsiderInsights Ratings of Companies with Form 4 Purchases and Accumulations Filed at the SEC in the Past Week

Sorted by: Insider Rating, then Total Transaction Value.

Generated with Special Screens tool at InsiderInsights.com using Pre-Programmed Screen: "Ratings of Latest Purchases"

					Total				Latest	Ave.		Mkt	10-Day
Inside		Rating		Trans	Purch	Shares			Trans	Purch	Recent	Сар	Ave Vol
Rating]*	Date Company	Ticker	Type(s)*	Value	Bought	# Ins	siders - Title(s)*	Date	Price	Price	(mm)	(m)
000	+0	12/21/18 FMC	FMC	В	\$251,650	3,500	1	DIR	12/20/18	\$71.90	\$70.87	9,543	1,070
000	+0	12/17/18 Big Lots	BIG	В	\$250,385	8,500	1	CEO,DIR,PR	12/14/18	\$29.46	\$27.05	1,083	2,180
000	+0	12/19/18 Metlife	MET	В	\$249,865	6,400	1	DIR	12/17/18	\$39.04	\$38.63	38,122	9,140
000	+0	12/21/18 AgroFresh Solutions	AGFS	B,JB*	\$236,634	60,000	5	CEO,CFO,DIR	12/21/18	\$3.94	\$3.54	179	200
000	+0	11/21/18 Marathon Petrol	MPC	В	\$217,490	3,500	1	DIR	12/14/18	\$62.14	\$56.74	39,199	9,730
000	+0	12/18/18 Health Insurance In	HIIQ	В	\$200,510	6,500	1	DIR	12/17/18	\$30.85	\$26.80	454	2,680
000	+0	12/19/18 Genesis Energy LP	GEL	В	\$197,500	10,000	1	VP	12/18/18	\$19.75	\$19.00	2,328	1,320
000	+0	12/19/18 Veru	VERU	В	\$188,832	130,000	2	BO,DIR,O	12/18/18	\$1.45	\$1.34	84	110
000	+0	12/21/18 ARC Document Sol	ARC	В	\$186,680	100,000	1	BO,CB,CEO,DIR,PR	12/21/18	\$1.87	\$1.87	86	320
000	+0	12/17/18 Kraton	KRA	В	\$185,001	8,000	1	CTO,VP	12/14/18	\$23.13	\$19.74	631	400
000	+0	12/17/18 FlexShopper	FPAY	JB*	\$183,076	254,427	1	BO	12/20/18	\$0.72	\$0.67	12	200
000	+0	10/24/18 Trinity Place	TPHS	JB*	\$181,845	41,089	1	BO	12/19/18	\$4.43	\$5.29	167	60
000		12/10/18 Legacy Reserves	LGCY	В	\$166,600	110,000	1	BO	12/14/18	\$1.51	\$1.35	144	1,300
000		12/17/18 Replimune	REPL	OB	\$152,250	87,000	1	0	12/13/18	\$1.75	\$13.50	426	100
000		12/21/18 Marvell Tech	MRVL	B	\$148,500	10,000	1	DIR	12/20/18	\$14.85	\$14.89	9,789	12,320
000		10/25/18 Citizens & Northern	CZNC	OE*,OB	\$145,322	8,169	4	DIR.VP	12/20/18	\$17.79	\$24.63	303	12,320
000		12/19/18 Triple-S Mgt	GTS	B,JB*	\$124,300	7,760	2	CEO,DIR,PR	12/19/18	\$16.02	\$16.24	373	170
000		12/20/18 South State	SSB	B,50	\$124,300	2,000		DIR	12/20/18	\$61.23	\$58.22	2,127	290
000		11/14/18 Aerpio Pharm	ARPO	B	\$122,430	60,000	1	BO,DIR	12/20/18	\$1.92	\$1.73	70	290 90
000		12/21/18 Pershing Gold	PGLC	B	\$115,076	126,000	1	BO	12/20/18	\$0.91	\$0.90	30	90 120
000				B		10,000							
000		12/21/18 Oceaneering Intl	01		\$114,200		2		12/21/18	\$11.42	\$11.29	1,112	1,770
000		12/17/18 CSS Ind	CSS	B	\$110,000	10,000	1	DIR	12/14/18	\$11.00	\$9.60	85	50
		12/19/18 Lamar Advertising Co	LAMR	OB	\$109,500	6,000	1	DIR	12/18/18	\$18.25	\$67.45	6,712	710
000		12/21/18 Ind Contract Drilling	ICD	B	\$106,220	37,000	2	DIR	12/21/18	\$2.87	\$2.90	220	390
000		12/17/18 C&J Energy Svs	CJ	B	\$102,638	7,030	1	DIR	12/14/18	\$14.60	\$13.04	878	1,590
000		12/17/18 Solar Cap	SLRC	В	\$101,753	5,000	1	DIR	12/14/18	\$20.35	\$18.92	800	130
000		12/17/18 Midland States Banc	MSBI	В	\$99,986	4,395	1	DIR	12/14/18	\$22.75	\$20.24	480	170
000		12/21/18 First Business Finl	FBIZ	В	\$99,950	5,000	1	DIR	12/20/18	\$19.99	\$19.70	173	20
000	+0	12/17/18 Knight-Swift Transporta	a KNX	В	\$99,909	3,661	1	DIR	12/13/18	\$27.29	\$23.98	4,186	3,300
000	+0	11/28/18 Jason Ind	JASN	В	\$99,531	63,977	1	BO	12/14/18	\$1.56	\$1.35	37	230
000	+0	12/20/18 Navistar Intl	NAV	В	\$93,430	3,500	1	DIR	12/20/18	\$26.69	\$25.00	2,473	1,180
000	+0	11/15/18 Metropolitan Bank	MCB	OB	\$90,000	3,000	1	DIR	12/14/18	\$30.00	\$31.14	256	20
000	+0	12/17/18 Construction Part	ROAD	В	\$88,740	10,500	2	CFO,VP	12/18/18	\$8.45	\$8.51	438	170
000	+0	12/17/18 Constellation Pharm	CNST	OB	\$87,521	15,884	1	0	12/13/18	\$5.51	\$5.70	147	30
000	+0	12/12/18 Amer Woodmark	AMWD	В	\$82,839	1,500	1	DIR,PR	12/21/18	\$55.23	\$55.67	961	240
000	+0	12/12/18 Hunt Finance Tr	HCFT	В	\$80,456	25,000	1	DIR	12/19/18	\$3.22	\$2.92	69	100
000	+0	12/11/18 Carters	CRI	AB	\$80,100	1,000	1	DIR	12/19/18	\$80.10	\$76.87	3,524	830
000	0	12/20/18 Inseego	INSG	JB*	\$34,421,398	11,473,799	2	BO	12/19/18	\$3.00	\$3.70	272	480
000	0	11/14/18 Carvana Co	CVNA	В	\$21,321,946	630,000	1	BO	12/19/18	\$33.84	\$29.84	4,299	2,120
000	0	11/8/18 Appian	APPN	В	\$5,280,168	200,000	1	BO	12/17/18	\$26.40	\$24.93	1,587	480
000	0	12/18/18 Live Nation Ent	LYV	OE*	\$4,345,000	1,580,000	1	CEO,DIR,PR	12/14/18	\$2.75	\$48.76	10,217	1,280
000	0	12/6/18 Enbridge	ENB	OB	\$1,386,350	70,000	2	DIR,O	12/21/18	\$19.81	\$30.76	59,171	9,760
000	0	12/21/18 Pacific Biosciences	PACB	OB	\$1,356,129	316,990	1	CFO,VP	12/20/18	\$4.28	\$7.39	1,100	2,400
000	0	12/13/18 Patrick Ind	PATK	В	\$1,229,115	40,000	2	CEO,DIR	12/17/18	\$30.73	\$28.37	681	560
000	0	11/13/18 Axon Enterprise	AAXN	OE*	\$1,037,386	218,397	1	CEO,DIR	12/20/18	\$4.75	\$41.79	2,443	960
000	0	12/18/18 Ares Cap	ARCC	В	\$801,000	50,000	1	CEO,DIR	12/14/18	\$16.02	\$14.84	6,326	4,340
000	0	12/18/18 Healthequity	HQY	OB	\$718,685	17,410	1	CEO,DIR,PR	12/14/18	\$41.28	\$55.33	3,452	1,120
000	0	12/12/18 Verisk Analytics	VRSK	OE*	\$704,682	32,031	1	CEO,DIR,PR	12/17/18	\$22.00	\$106.01	17,451	1,100
000	0	12/20/18 Centene	CNC	OB	\$570,200	10,000	1	CB,CEO,DIR	12/18/18	\$57.02	\$112.51	23,105	2,550
000		11/19/18 Party Cityco	PRTY	B	\$493,997	51,458	1	CEO,DIR	12/18/18	\$9.60	\$8.80	854	1,790
555	0		11111	U	ψ-30,337	51,450	1		12/14/10	ψ3.00	ψ0.00	004	1,730

See last page for the Key to Ratings, Titles & Transaction Type codes.



InsiderInsights Ratings of Companies with Form 4 Purchases and Accumulations Filed at the SEC in the Past Week

Sorted by: Insider Rating, then Total Transaction Value.

Generated with Special Screens tool at InsiderInsights.com using <u>Pre-Programmed Screen</u>: "Ratings of Latest Purchases"

					Total				Latest	Ave.		Mkt	10-Day
Insid	ler	Rating		Trans	Purch	Shares			Trans	Purch	Recent	Cap	Ave Vol
Ratir		Date Company	Ticker	Type(s)*	Value		# Ins	siders - Title(s)*	Date	Price	Price	(mm)	(m)
000	0	12/7/18 Teladoc Health	TDOC	OB	\$383,942	134,878		CEO,CFO,COO,DIR	R,VP 12/20/18	\$2.85	\$44.01	3,085	2,160
000	0	10/31/18 NovaGold Res	NG	OE*	\$325,500	150,000	1	CEO,DIR,PR	12/14/18	\$2.17	\$3.83	1,232	1,850
000	0	11/1/18 Old Line Banc	OLBK	OB	\$212,940	33,800	1	CEO,PR	12/18/18	\$6.30	\$25.93	441	40
000	0	12/20/18 Macerich Co	MAC	В	\$200,826	4,500	1	DIR	12/18/18	\$44.63	\$41.72	5,885	1,940
000	0	12/17/18 Regeneron Pharm	REGN	OE*	\$193,847	4,125	1	CT,VP	12/20/18	\$46.99	\$344.60	36,639	840
000	0	11/26/18 Northfield Banc	NFBK	OE*	\$192,854	27,220	1	DIR	12/18/18	\$7.09	\$12.86	637	200
000	0	12/18/18 Martin Marietta Mat	MLM	В	\$174,070	1,000	1	DIR	12/14/18	\$174.07	\$165.29	10,366	870
000	0	11/29/18 Ventas	VTR	OB	\$167,864	5,940	1	DIR	12/21/18	\$28.26	\$60.27	21,484	2,890
000	0	12/18/18 Monmouth RE Inv	MNR	JB*	\$164,000	12,529	1	0	12/17/18	\$13.09	\$12.72	1,165	980
000	0	12/19/18 HG	STLY	В	\$154,361	366,514	1	BO	12/19/18	\$0.42	\$0.42	6	50
000	0	12/18/18 PGT Innovations	PGTI	OE*	\$140,544	70,272	1	DIR	12/14/18	\$2.00	\$15.22	882	710
000	0	11/28/18 Destination XL	DXLG	В	\$134,074	55,500	1	BO	12/14/18	\$2.42	\$1.99	99	70
000	0	12/20/18 Evans Banc	EVBN	В	\$132,269	3,995	2	CEO,DIR,PR	12/20/18	\$33.11	\$32.51	157	20
000	0	12/20/18 XBiotech	XBIT	OB	\$125,000	50,000	1	BO,CEO,DIR	12/19/18	\$2.50	\$6.27	225	180
000	0	12/17/18 ExlService	EXLS	В	\$123,543	2,220	1	DIR	12/13/18	\$55.65	\$48.93	1,676	230
000	0	12/18/18 Renewable Energy	REGI	В	\$119,700	5,000	1	DIR	12/17/18	\$23.94	\$23.27	868	920
000	0	12/18/18 Luther Burbank	LBC	В	\$116,350	12,722	1	DIR	12/13/18	\$9.15	\$8.09	457	140
000	0	11/8/18 Public Storage	PSA	OB	\$115,960	1,000	1	DIR	12/18/18	\$115.96	\$203.30	35,448	1,600
000	0	12/14/18 Allscripts Healthcare	MDRX	В	\$109,846	10,585	2	DIR	12/14/18	\$10.38	\$9.09	1,588	4,240
000	0	12/21/18 Portola Pharm	PTLA	OB	\$105,706	25,782	1	DIR	12/19/18	\$4.10	\$15.46	1,027	2,310
000	0	12/17/18 Loxo Oncology	LOXO	В	\$100,716	725	1	DIR	12/13/18	\$138.92	\$127.80	3,913	410
000	0	11/26/18 Raymond James Finl	RJF	OE*	\$99,951	2,064	1	PR	12/14/18	\$48.43	\$70.41	10,089	1,700
000	0	12/6/18 Ebix	EBIX	В	\$99,275	2,500	1	CB,CEO,DIR	12/21/18	\$39.71	\$40.38	1,263	570
000	0	12/18/18 Resonant	RESN	В	\$96,465	66,758	1	DIR	12/17/18	\$1.44	\$1.18	32	260
000	0	11/20/18 Cullen/Frost Bankers	CFR	В	\$93,380	1,000	1	DIR	12/14/18	\$93.38	\$85.40	5,461	590
000	0	12/19/18 General Finance	GFN	JB*	\$84,543	863	1	BO	12/20/18	\$97.96	\$9.13	277	80
000	0	12/20/18 County Banc	ICBK	OB	\$72,960	6,080	1	DIR,PR	12/19/18	\$12.00	\$19.91	133	10
000	0	12/10/18 Rocket Pharm	RCKT	OB	\$67,601	55,869	1	COO	12/20/18	\$1.21	\$11.21	497	440
000	0	12/21/18 CymaBay Therap	CBAY	В	\$65,399	10,000	1	CEO,DIR	12/21/18	\$6.54	\$6.54	389	850
000	0	12/12/18 MutualFirst Finl	MFSF	OB	\$56,850	5,000	1	DIR	12/17/18	\$11.37	\$27.40	235	10
000	0	11/13/18 Ball	BLL	OE*	\$52,765	5,266	1	VP	12/17/18	\$10.02	\$43.62	14,796	4,340
000	0	12/20/18 Qualys	QLYS	OB	\$51,228	5,756	1	GC,SEC,VP	12/19/18	\$8.90	\$67.88	2,673	450
000	0	11/1/18 BorgWarner	BWA	В	\$49,927	1,421	1	DIR	12/19/18	\$35.14	\$33.77	7,033	2,240
000	0	12/3/18 Athenex	ATNX	OB	\$45,500	10,000	1	BO,CB,CEO,DIR	12/20/18	\$4.55	\$10.97	734	610
000	0	12/17/18 TriCo Banc	тсвк	В	\$45,000	1,250	1	CFO,VP	12/6/18	\$36.00	\$32.86	1,000	90
000	0	11/19/18 Williams Industrial Svs	WLMS	В	\$44,000	20,000	2	BO,DIR	12/17/18	\$2.20	\$2.21	41	20
000	0	11/21/18 Pacira Pharm	PCRX	OB	\$42,600	12,000	1	CB,CEO,DIR	12/18/18	\$3.55	\$41.56	1,709	500
	+10	0 11/29/18 Resideo Tech	REZI	В	\$159,639	7,200	3	0	12/14/18	\$22.17	\$20.08	2,469	1,950
	-200) 12/21/18 Endocyte	ECYT	OE*	\$774,202	140,214	1	DIR	12/17/18	\$5.52	\$23.99	1,969	1,890

InsiderInsights Ratings of Latest Insider Sales

InsiderInsights Ratings of Companies with Form 4 Sales and Distributions Filed at the SEC in the Past Week

Sorted by: Insider Rating, then Total Transaction Value.

Generated with Special Screens tool at InsiderInsights.com using <u>Pre-Programmed Screen</u>: "Ratings of Latest Sales"

Rating* Date Company Ticker Type(s)* Value Sold # Insiders - Title(s)* Date Price P	% Pr ecent Below Price Highs	
Rating* Date Company Ticker Type(s)* Value Sold # Insiders - Title(s)* Date Price P		v Cab
	16.87 -64%	,
●●● -2 11/5/18 Snap SNAP AS \$452,354 78,031 2 CAO,CFO,VP 12/19/18 \$5.80	\$4.99 -73%	,
	12.94 -54%	- ,
	\$3.68 -52%	
	52.95 -41%	
	\$4.80 -36%	, .
	55.40 -50%	,
	512.27 -61%	, -
	\$8.06 -51%	
	14.08 -27%	
	687.13 -16%	
	22.91 -18%	
		. ,
	26.04 -6% 244.91 -5%	20,820
		101,257
		-, -
		,
	45.15 -23% 52.51 -40%	, -
		, -
	80.48 -22%	,
	61.67 -7%	3,886
	06.73 -22%	,
	44.21 -7%	30,147
AAA	36.47 -36%	.,
	62.00 -16%	- , -
AAA	44.99 -6%	59,430
	54.57 -34%	- /
	61.79 -3%	18,334
AAA	72.95 -6%	3,910
AAA	54.51 -4%	19,724
2000	34.96 -19%	,
A AA	16.08 -52%	, -
AAA	15.20 -24%	.,
000	44.93 -10%	
	\$8.19 -38%	,
	28.22 -31%	- /
	90.38 -28%	.,
A A A	54.59 -18%	
AAA	23.50 -26%	
A AA	24.50 -39%	,
A AA	274.64 -16%	
A A A	30.02 -1%	992
	574.03 -26%	4,217
	76.15 -14%	7,616
	27.37 -9%	2,297
	75.38 -24%	6,108
	43.23 -9%	32,910
	06.55 -24%	4,608
OCC -0 11/1/18 Dolby LABS DLB AS \$1,831,004 28,359 3 CEO,DIR,GC,PR,SEC 12/18/18 \$64.57 \$	59.52 -13%	6,146
OOOO -0 12/3/18 Keysight Tech KEYS S,OS \$1,796,903 29,416 2 VP 12/19/18 \$61.09 \$	57.13 -13%	10,720
OOOO -0 11/9/18 CorVel CRVL OS,AS \$1,752,672 27,719 2 BO,CB,DIR 12/21/18 \$63.23 \$	59.88 -12%	1,123

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				Total				Latest	Ave.		% Pr	Mkt
Insider	Rating		Trans	Sale	Shares			Trans	Sale	Recent	Below	Сар
Rating*	Date Company	Ticker	Type(s)*	Value	Sold	# Ins	siders - Title(s)*	Date	Price	Price	Highs	(mm)
0-000	10/16/18 Veeva Sys	VEEV	AS	\$1,576,823	18,029	2	DIR,GC,SEC,VP	12/18/18	\$87.46	\$80.99	-21%	11,768
0-000	12/13/18 Fate Therap	FATE	S	\$1,519,156	108,998	1	DIR	12/19/18	\$13.94	\$11.50	-25%	742
0-000	12/11/18 Stryker	SYK	OS	\$1,508,080	9,332	1	COO,PR	12/18/18	\$161.60	\$150.73	-10%	56,401
0-000	12/3/18 Tyler Tech	TYL	OS	\$1,396,913	7,500		DIR	12/14/18	\$186.26	\$177.18	-26%	6,879
0-000	12/17/18 Systemax	SYX	OS	\$1,381,395	44,652	2	CFO,PR,VP	12/14/18	\$30.94	\$23.81	-19%	887
0-000	12/12/18 Haemonetics	HAE	OS,S	\$1,289,014	12,525	2	DIR	12/14/18	\$102.92	\$92.17	-13%	4,764
0-00	12/21/18 Express	EXPR	S	\$1,288,654	240,425	1	BO	12/20/18	\$5.36	\$4.99	-54%	342
0-00	12/4/18 Regenxbio	RGNX	OS,AS	\$1,286,275	27,500	3	CEO,CFO,DIR,GC,PR	12/18/18	\$46.77	\$39.37	-44%	1,411
0-000	11/21/18 Cornerstone OnD	CSOD	AS,OS	\$1,277,524	24,552	3	CEO,DIR,O	12/19/18	\$52.03	\$46.75	-12%	2,740
0-000	10/9/18 Civitas Solutions	CIVI	AS	\$1,254,739	71,393	1	CEO,DIR,PR	12/19/18	\$17.58	\$17.46	-4%	631
0-000	12/14/18 Arrowhead Pharm	ARWR	AS	\$1,252,800	90,000	1	CEO,DIR	12/19/18	\$13.92	\$11.21	-38%	1,034
0-00	12/20/18 EQGP LP	EQGP	S	\$1,117,383	56,263	1	DIR	12/18/18	\$19.86	\$19.93	-35%	6,028
0-000	9/21/18 Exxon Mobil	XOM	S	\$1,092,527	15,000	1	VP	12/19/18	\$72.84	\$68.12	-18%	288,407
A A A	11/26/18 Sailpoint Tech	SAIL	AS	\$1,068,371	47,000	2		12/18/18	\$22.73	\$21.38	-34%	1,877
A A A	11/14/18 Workiva	WK	OS,AS	\$1,038,255	30,000		BO,CFO,CTO,VP	12/20/18	\$34.61	\$32.39	-14%	1,420
0-000	12/18/18 Omnicell	OMCL	AS	\$1,013,801	15,893		CB,CEO,CFO,DIR,PR	12/19/18	\$63.79	\$58.42	-20%	2,315
0-00	12/18/18 Mastercard	MA	AS	\$959,993	5,000	1	DIR	12/17/18	\$192.00	\$175.19	-15%	180,935
0-000	11/9/18 Amphastar Pharm	AMPH	S	\$925,679	45,193	2	BO,CEO,DIR	12/14/18	\$20.48	\$19.64	-9%	905
0-000	11/19/18 Minerals Tech	MTX	OS	\$870,090	17,454	1	VP	12/19/18	\$49.85	\$49.47	-38%	1,744
0-000	11/14/18 Green Plains	GPRE	S	\$833,595	63,015	1	COO,PR	12/20/18	\$13.23	\$12.49	-39%	517
0-00	12/17/18 Zogenix	ZGNX	S	\$826,910	20,000	1	DIR	12/14/18	\$41.35	\$34.16	-34%	1,434
0-00	11/26/18 Boston Beer	SAM	AS	\$800,004	2,909	1	BO,CB,DIR	12/14/18	\$275.01	\$246.98	-17%	2,870
0-000	12/7/18 Yum! Brands	YUM	OS	\$761,959	8,343	1	CFO,PR	12/17/18	\$91.33	\$88.14	-3%	27,526
0-00	12/19/18 Walt Disney Co	DIS	AS	\$730,905	6,654		FO,GC,SEC,VP	12/20/18	\$109.84	\$104.22	-8%	155,149
0-00	12/14/18 QAD	QADA	JS*	\$728,840	18,000	1	BO,DIR,PR	12/21/18	\$40.49	\$40.25	-34%	758
0-000	12/21/18 United Finl Banc	UBNK	OS	\$697,626	47,000	1	CEO,DIR,PR	12/20/18	\$14.84	\$14.67	-19%	749
0-00	10/4/18 ResMed	RMD	AS,OS	\$697,084	6,193	2	CFO,COO,PR	12/17/18	\$112.56	\$106.45	-4%	15,169
0-00	11/16/18 Retrophin	RTRX	AS	\$683,786	31,001	3	CEO,CFO,COO,DIR	12/21/18	\$22.06	\$21.18	-32%	874
A A A	12/21/18 AutoNation	AN	OS	\$679,812	20,000	1	DIR	12/20/18	\$33.99	\$33.64	-45%	3,025
0-000	11/6/18 Five9	FIVN	OS	\$669,275	16,411	2	OO,PR,VP	12/20/18	\$40.78	\$39.32	-18%	2,311
000	11/16/18 Pinnacle West Cap	PNW	S	\$664,582	7,258			12/13/18	\$91.57	\$89.41	-1%	10,021
000	11/15/18 Western Union	WU	OS	\$653,573	35,717		DIR	12/14/18	\$18.30	\$16.83	-18%	7,452
000	12/20/18 Pioneer Natural Res	PXD	S	\$644,080	4,800	1	CEO,DIR,PR	12/19/18	\$134.18	\$125.08	-37%	21,321
000	11/21/18 Inspire Medical Sys	INSP	AS	\$643,213	15,000	1	CEO,DIR,PR	12/18/18	\$42.88	\$37.50	-26%	858
0-000	10/2/18 HP	HPQ	S	\$641,574	28,774		PR	12/14/18	\$22.30	\$19.65	-18%	30,526
000	12/11/18 United Therap		OS	\$618,240	6,000		GC,VP	12/20/18		\$102.51	-33%	4,468
	11/5/18 PriceSmart	PSMT	AS	\$615,991	9,900			12/17/18	\$62.22	\$56.09	-34%	1,709
0-000	10/22/18 TriNet	TNET	OS,AS	\$612,908	14,312			12/19/18	\$42.82	\$40.06	-29%	2,822
0-000	12/18/18 DexCom	DXCM	AS	\$606,167	5,000	1	VP	12/14/18	\$121.23	\$108.32	-20%	9,624
0-000	11/19/18 Intersect ENT	XENT	OS	\$594,504	20,000		CEO,DIR,PR	12/17/18	\$29.73	\$26.28	-31%	803
	11/20/18 Quotient Tech	QUOT	AS	\$570,530	50,000		CB,DIR	12/17/18	\$11.41	\$20.20	-29%	989
000 -0	10/23/18 AmerisourceBergen	ABC	OS	\$563,360	6,974		VP	12/14/18	\$80.78	\$71.98	-24%	15,255
000 -0	11/6/18 Smart Global	SGH	os	\$545,081	18,800		DIR,VP	12/17/18	\$28.99	\$28.75	-49%	655
000 -0	12/18/18 Booking	BKNG	AS	\$528,218	294		CEO,PR	12/17/18	\$1,797	\$1,633	-19%	75,674
0-000	12/6/18 Ambarella	AMBA	s	\$522,234	13,743	3	CEO,CTO,DIR,SO,VP	12/18/18	\$38.00	\$34.33	-43%	1,100
0-000	12/12/18 RingCentral	RNG	AS	\$514,769	6,389			12/21/18	\$80.57	\$71.51	-24%	5,745
000 -0	9/21/18 Pure Storage	PSTG	OS	\$498,269	30,000		CFO	12/19/18	\$16.61	\$15.02	-43%	3,629
000	11/21/18 Mercury Sys	MRCY	AS	\$484,050	10,000		CEO,DIR,PR	12/18/18	\$48.41	\$43.54	-16%	2,107
000 -0	9/25/18 Comcast	CMCSA	OS	\$476,185	13,086		GC,SEC,VP	12/18/18	\$36.39	\$33.75	-17%	153,546
-0	10/17/18 Collegium Pharm	COLL	AS	\$454,491	25,000	Ĩ	DIR	12/17/18	\$18.18	\$14.78	-39%	491

See last page for the Key to Ratings, Titles & Transaction Type codes.

InsiderInsights Ratings of Companies with Form 4 Sales and Distributions Filed at the SEC in the Past Week

Sorted by: Insider Rating, then Total Transaction Value.

Generated with Special Screens tool at InsiderInsights.com using Pre-Programmed Screen: "Ratings of Latest Sales"

					Total				Latact	A. 10		0/ Dr	Mist
Inside	٩r	Rating		Trans	Total Sale	Shares			Latest Trans	Ave. Sale	Recent	% Pr Below	Mkt Cap
Rating		Date Company	Ticker	Type(s)*	Value		# Ins	siders - Title(s)*	Date	Price	Price	Highs	(mm)
000	-0	11/20/18 Tucows	тсх	S	\$447,600	7,000	1	DIR	12/14/18	\$63.94	\$60.63	-11%	644
000	-0	12/13/18 Toro Co	TTC	S,OS	\$442,093	7,727	1	VP	12/18/18	\$57.21	\$54.30	-15%	5,730
000	-0	11/16/18 Global Payments	GPN	AS	\$439,349	4,300	3	DIR	12/14/18	\$102.17	\$96.27	-21%	15,231
000	-0	12/18/18 Aecom	ACM	AS	\$435,111	15,756	1	LO,VP	12/18/18	\$27.62	\$25.34	-31%	3,962
000	-0	12/18/18 Jernigan Cap	JCAP	S	\$403,945	19,081	1	DIR	12/14/18	\$21.17	\$19.92	-4%	406
000	-0	12/12/18 Hewlett Packard	HPE	AS	\$398,760	27,182	1	PR,TO	12/13/18	\$14.67	\$12.61	-25%	17,637
000	-0	9/19/18 Baxter Intl	BAX	OS	\$374,626	5,610	2	DIR	12/13/18	\$66.78	\$62.90	-15%	33,472
000	-0	12/21/18 Watsco	WSO	JS*	\$353,166	2,500	1	VP	12/20/18	\$141.27	\$133.59	-27%	5,000
000	-0	12/12/18 Bio-Rad LABS	BIO	JS*	\$349,928	1,411	1	CFO,VP	12/14/18	\$248.00	\$225.45	-28%	6,869
000	-0	11/7/18 Bottomline Tech	EPAY	S	\$338,117	6,723	1	MD	12/13/18	\$50.29	\$44.17	-32%	1,903
000	-0	12/3/18 Ciena	CIEN	AS	\$327,289	9,500	5	CFO,CTO,FO,GC,VP	12/17/18	\$34.45	\$31.71	-5%	4,893
000	-0	9/24/18 Zynga	ZNGA	OS,AS	\$326,050	87,000	2	COO,HR	12/18/18	\$3.75	\$3.63	-18%	3,129
000	-0	11/20/18 UniFirst	UNF	AS	\$307,230	2,200	1	BO	12/17/18	\$139.65	\$134.88	-28%	2,582
000	0	12/17/18 Regeneron Pharm	REGN	OS	\$47,184,504	244,048	1	DIR,PR	12/13/18	\$193.34	\$344.60	-54%	36,639
000	0	12/20/18 Amer Finl	AFG	S	\$9,998,831	109,768	1	CEO,DIR,PR	12/19/18	\$91.09	\$88.24	-23%	7,876
000	0	12/7/18 Pluralsight	PS	S	\$9,257,826	387,600	1	BO,DIR,F	12/14/18	\$23.89	\$19.61	-38%	2,649
000	0	11/19/18 Goosehead Insurance		AS	\$7,760,961	285,096	4	BO,CEO,CFO,DIR	12/18/18	\$27.22	\$23.70	-29%	860
000	0	12/13/18 Patrick Ind	PATK	S	\$6,746,853	222,347	1	DIR	12/17/18	\$30.34	\$28.37	-58%	681
000	0	11/26/18 Kellogg	К	AS	\$5,768,520	100,000	1	BO	12/20/18	\$57.69	\$57.64	-23%	20,002
000	0	11/14/18 Fiserv	FISV	AS	\$3,699,032	50,000	1	CEO,DIR,PR	12/19/18	\$73.98	\$70.92	-11%	28,260
000	0	12/13/18 Genomic Health	GHDX	AS	\$3,339,527	50,000	1	CEO,DIR,PR	12/18/18	\$66.79	\$60.29	-28%	2,178
000	0	11/14/18 Fair Isaac	FICO	OS	\$3,276,136	17,996	2		12/21/18	\$182.05	\$175.05	-23%	5,069
000	0	11/13/18 Ball	BLL	OS	\$3,024,630	63,000	1	CB,DIR,PR	12/14/18	\$48.01	\$43.62	-6%	14,796
000	0	11/20/18 Wayfair	W	S,AS	\$2,749,812	27,661	7	BO,CEO,CFO,COO	12/17/18	\$99.41	\$82.14	-33%	7,421
000	0	11/14/18 Tutor Perini	TPC	S	\$2,583,960	160,000	4	BO,CB,CEO,DIR	12/20/18	\$16.15	\$15.39	-43%	770
000	0	12/19/18 Crispr Therap AG	CRSP	s	\$2,176,898	72,934	1	DIR	12/18/18	\$29.85	\$22.73	-60%	1,180
000	0	11/6/18 Chegg	CHGG	S,OS,AS	\$1,681,695	57,350	2	CFO,DIR	12/19/18	\$29.32	\$25.89	-12%	2,975
000	0	12/7/18 Teladoc Health	TDOC	OS,AS	\$1,655,227	33,374	3	BD,CEO,DIR,O,VP	12/19/18	\$49.60	\$44.01	-44%	3,085
000	0	12/19/18 Cimpress NV	CMPR	OS OS	\$1,591,544	14,763	1	DIR	12/18/18	\$107.81	\$100.35	-37%	3,102
000	0	12/20/18 Centene	CNC	AS	\$1,520,600	12,540	2		12/18/18	\$121.26	\$112.51	-19%	23,102
000	0	12/11/18 Kroger Co	KR	s	\$1,404,039	47,946	2		12/18/18	\$29.28	\$27.40	-10%	21,858
000	0	12/21/18 Portola Pharm	PTLA	OS	\$1,404,039	64,218	2	DIR	12/17/18	\$29.20	\$27.40	-67%	1,027
000	0	12/21/18 CymaBay Therap	CBAY	s	\$1,123,589	142,381	1	DIR	12/18/18	\$7.89	\$6.54	-49%	389
000				OS								-55%	
000	0	12/18/18 Inogen 11/30/18 Tabula Rasa HealthCa		OS	\$1,108,787 \$1,018,048	8,500 16,000	1	DIR CEO,DIR,PR	12/14/18 12/18/18	\$130.45 \$63.63	\$115.29 \$57.91	-30%	2,481
000	0		RAMP	s			2	LO				-30%	1,185
000	0	11/9/18 Liveramp	CDXS	AS	\$943,379 \$925,950	21,657	1	DIR	12/19/18	\$43.56	\$38.78	-15%	3,065
000		10/1/18 Codexis	-			50,000			12/20/18	\$18.52	\$15.93		861
000	0	10/31/18 NovaGold Res	NG	S,OS	\$878,138 \$678,094	224,089			12/18/18	\$3.92	\$3.83	-24% -11%	1,232
000	0	12/12/18 Verisk Analytics	VRSK	OS,AS		6,090	2		12/19/18	\$111.35	\$106.01		17,451
000	0	11/28/18 CarGurus	CARG	AS	\$673,600	20,000	1	CTO	12/19/18	\$33.68	\$30.81	-41%	3,392
000	0	9/27/18 Amer Software	AMSWA	OS	\$671,022	68,194	1	PR	12/17/18	\$9.84	\$9.30	-48%	288
	0	11/20/18 Corning	GLW	OS	\$613,600	20,000	1		12/19/18	\$30.68	\$28.78	-16%	23,036
000	0	12/21/18 Adobe	ADBE	AS	\$608,539	2,692	1	SO,VP	12/19/18	\$226.05	\$208.80	-19%	101,922
000	0	11/15/18 Carbonite	CARB	S,AS	\$512,074	19,518	2		12/19/18	\$26.24	\$24.10	-39%	833
000	0	11/2/18 FibroGen	FGEN	OS,AS	\$475,172	11,752	4		12/20/18	\$40.43	\$40.23	-40%	3,419
000	0	12/17/18 TriCo Banc	ТСВК	S,OS	\$432,235	12,136	3		12/14/18	\$35.62	\$32.86	-11%	1,000
000	0	12/3/18 Intel	INTC	AS	\$409,874	8,552	1		12/18/18	\$47.93	\$44.84	-17%	204,650
000	0	9/18/18 Dave & Busters Ent	PLAY	OS	\$338,341	7,500	1		12/17/18	\$45.11	\$43.68	-33%	1,688
	-200) 12/21/18 Endocyte	ECYT	OS	\$3,354,072	150,253	1	0	12/21/18	\$22.32	\$23.99	-7%	1,969



COMPANIES WITH LARGEST AGGREGATE INSIDER PURCHASES

Includes Transaction Types B, AB, & JB*,. Filed at the SEC in the past week. Top 50 only. Generated with Special Screens tool at InsiderInsights.com using <u>Pre-Programmed Screen</u>: "Largest Company Buys (Week) + All Ratings"

Image: Problem in the state of the						Total				Latest	Ave.		Mkt	10-Day
••••••••••••••••••••••••••••••••••••	Insider	Rating			Trans	Purch	Shares			Trans	Purch	Recent	Сар	Ave Vol
● ■	Rating*	Date	Company	Ticker	Type(s)*	Value	Bought #	# Ins	siders - Title(s)*	Date	Price	Price	(mm)	(m)
●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●	0 00 +1	12/21/18	W R Grace	GRA	В	\$101,731,584	1,672,968	1	BO	12/21/18	\$60.81	\$60.72	4,068	900
○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○	0 00 +1	12/20/18	Axovant Sciences	AXON	JB*	\$80,000,000	80,000,000	8	BO	12/18/18	\$1.00	\$0.99	154	2,050
○○○ 0 1202116 Inseque NSG JP 53,4421396 11,473,790 2 DO 12/14/18 \$30.0 \$3.70 27.2 44.0 ○○ +0.5 12/15/18 Obels Medical Ret GMR JF \$22,899.997 3.333.33 BO,DR 12/14/18 \$9.00 \$3.04 \$1.22 111 1.250 ○○ 111/14/16 Carvana Co C/VM B \$22,321,946 63.000 1 BO.D 12/11/18 \$1.42.3 \$1.40 \$2.00 1.80 12/11/18 \$1.42.3 \$1.40 \$2.00 1.80 \$0.00 1.80,DIR 12/21/18 \$1.52 \$1.61.0 \$1.88 1.60 \$1.01/11/18 \$1.51.3 \$1.88 1.60 \$1.01/118 \$1.51.3 \$1.88 1.60 \$1.01/118 \$1.01 \$1.00 \$1.01 \$1.01/118 \$1.01 \$1.01 \$1.00 \$1.01 \$1.01 \$1.01 \$1.02 \$1.01 \$1.01 \$1.01 \$1.01 \$1.01 \$1.01 \$1.01 \$1.01/118 \$1.01 \$1.01 <td>000 +1</td> <td>10/18/18</td> <td>Intl Flavors & Frag</td> <td>IFF</td> <td>В</td> <td>\$56,260,337</td> <td>420,700</td> <td>1</td> <td>BO</td> <td>12/19/18</td> <td>\$133.73</td> <td>\$128.21</td> <td>13,670</td> <td>1,140</td>	0 00 +1	10/18/18	Intl Flavors & Frag	IFF	В	\$56,260,337	420,700	1	BO	12/19/18	\$133.73	\$128.21	13,670	1,140
●●●● ●●● ●●● ●●● ●●● ●●● ●●● ●●● ●●● ●●● ●●● ●●● ●●● ●●● ●●● ●● <td>000 +0</td> <td>12/21/18</td> <td>Globalstar</td> <td>GSAT</td> <td>B,JB*</td> <td>\$55,745,340</td> <td>155,806,043</td> <td>1</td> <td>BO,CEO,DIR</td> <td>12/21/18</td> <td>\$0.36</td> <td>\$0.47</td> <td>591</td> <td>10,620</td>	000 +0	12/21/18	Globalstar	GSAT	B,JB*	\$55,745,340	155,806,043	1	BO,CEO,DIR	12/21/18	\$0.36	\$0.47	591	10,620
O -0.5 12/13/18 VBI Vaccines VBV JB* ±21.999.999 15.714.285 2 BODR 12/17/18 S14.00 S14.22 111 1250 O 1 11/14/16 CorvAn 8 S21.327, 846 630.000 1 BOD 12/11/18 S14.32 S12.2 111 12/201.6 S18.438 S17.22 L12 L12/11/16 Mode S11.100.981 T779.900 1 BOD.DR 12/211/18 S17.27 S13.13 S18.90 L1 L11/11/16 ALSO 500.000 1 BOD.DR 12/211/18 S17.27 S13.13 L18.90 L18.90 L12/211/18 S15.27 S13.13 L18.91 L12 L13.91 L12/211/18 L12/211/18 L12/211/18 L14.21 L14.12	000 0	12/20/18	Inseego	INSG	JB*	\$34,421,398	11,473,799	2	BO	12/19/18	\$3.00	\$3.70	272	480
0 0 11/14/18 Carvana Co C/VAA 8 \$21,321,946 630,000 1 800 12/11/18 833,84 \$23,84 \$23,84 \$23,84 \$23,84 \$23,84 \$23,84 \$23,84 \$23,84 \$23,84 \$23,84 \$23,800 1 80,000 1 10,000	000 +0.	5 12/18/18	Global Medical Reit	GMRE	JB*	\$29,999,997	3,333,333	3	BO,DIR	12/14/18	\$9.00	\$9.00	232	420
● + 1211718 Medicines MBCO B \$19.819.832 999.383 3 CEO.DR.VP 122018 S19.83 \$17.25 2.430 ● -2 122118 Scientific Games SGMS S S11.00.981 177.990 1 BO.DR 122118 S12.27 S15.13 J.881 J.888 J.880 J.801 J.22118 S12.27 S15.13 J.881 J.880 J.801 J.22118 S12.27 S15.13 J.1381 J.13811 J.1381 J.1381	000 +0.	5 12/18/18	VBI Vaccines	VBIV	JB*	\$21,999,999	15,714,285	2	BO,DIR	12/17/18	\$1.40	\$1.22	111	1,250
 12 12/1/8 Lons Gale Ent LGFA B \$11,100,981 779.900 BO,DR 122/1/8 \$14.23 \$14.23 \$15.5 \$14.40 \$17.18 \$15.5 \$14.40 \$17.18 \$11.2118 \$11.2118 \$11.2118 \$11.2118 \$11.2118 \$11.21178 \$11.211718 \$11.211	000 0	11/14/18	Carvana Co	CVNA	В	\$21,321,946	630,000	1	BO	12/19/18	\$33.84	\$29.84	4,299	2,120
0 0	0 00 +1	12/17/18	Medicines	MDCO	В	\$19,819,932	999,363	3	CEO,DIR,VP	12/20/18	\$19.83	\$17.26	1,275	2,430
● + 11/19/18 AVEO Pharm AVEO B \$6,969,960 4,500,000 9 BO 12/21/18 \$1.55 \$1.49 187 1.620 ● + 11/26/18 Sumun RUN B \$6,567,500 500,000 1 BO 12/21/18 \$1.155 \$1.49 187 1.520 ● 1 12/21/18 AlpineDenside LP AB B \$5,574,630 2,657,650 50 CEO,CPO,DR.VP 12/21/18 \$24.95 24/24 2.341 1.555 \$1.00 1.12/17/18 \$24.95 34.46 85.60 62 CEO,CPO,DR.VP 12/21/18 \$24.80 \$24.83 45.80 \$62.46 60 12/17/18 \$24.85 \$63.74 420 41 11/19/18 \$24.85 \$45.35 45.35 45.00 3.440,677 1 BO,DR 12/17/18 \$34.85 \$4.33 45.0 44.00 41 11/19/18 \$24.55 \$4.28 31.44 40.0 41 11/19/18 \$4.55 \$4.28 31.44 40.0 </td <td>••• +2</td> <td>12/21/18</td> <td>Lions Gate Ent</td> <td>LGF.A</td> <td>В</td> <td>\$11,100,981</td> <td>779,900</td> <td>1</td> <td>BO,DIR</td> <td>12/21/18</td> <td>\$14.23</td> <td>\$14.00</td> <td>2,909</td> <td>1,880</td>	••• +2	12/21/18	Lions Gate Ent	LGF.A	В	\$11,100,981	779,900	1	BO,DIR	12/21/18	\$14.23	\$14.00	2,909	1,880
+1 11/12/0118 Suntum RUN B \$6,567,500 500,000 1 BO 12/17/18 \$13.44 \$10.90 1,219 2,000 •0 50.57/18 CEN S57.4530 2,567.4530 2,567.4530 2,567.4530 2,567.4530 2,567.4530 2,567.4530 2,567.4530 2,567.4530 2,567.4530 2,567.500 5 2,777.18 5,871.680 5,577.650 2,567.500 5 2,777.18 5,871.680 5,578.168 2,000.00 1 BO. 12/17/18 5,824.08 5,871.680 5,000.00 1 BO. 12/17/18 5,824.08 5,878.148 5,000.00 1 BO. 12/17/18 5,81.43 5,53.00 5,000.00 1 BO. 12/17/18 5,14.33 5,30 3,000.00 1 BO. 12/17/18 5,12.00 5,14.33 5,30 3,000.00 1 BO. 12/17/18 5,12.33 5,12.33 5,12.33 5,12.33 5,12.33 5,12.33 5,12.33 5,12.33 1,12.11.91.91.91.91.91.91.91.91.91.91.91.91.	000 +0.	5 12/20/18	Scientific Games	SGMS	В	\$9,162,000	600,000	1	BO,DIR	12/21/18	\$15.27	\$15.13	1,388	1,650
0 0	0 00 +1	11/19/18	AVEO Pharm	AVEO	В	\$6,969,960	4,500,000	9	BO	12/21/18	\$1.55	\$1.49	187	1,620
+1 12/13/18 CH-K B 55,74,830 2,855,000 5 CEO,CPO,DR,VP 12/2018 52,10 51,90 5,21 0 0 11/8/18 Applain APPN B 55,28,108 200,000 1 BO 12/17/18 S2,10 51,90 52,81 430 0 11 2/17/18 Baryan AB S4,408,240 S3,46,677 1 BO,DIR 12/17/18 S1,22 S1,43 S5 30 +1 12/17/18 Baryanshig BDC AB,B S4,026,335 435,600 3 A0,BO,CPO,FO 12/17/18 S1,22 S1,43 S5 30 +1 12/17/18 Baryanshig BDC AB,B S3,762,24 S3,61,71 S0,017 S1,72 S2,74 L2014 S11,72 S11,24 S14,20 S12,21 S14,20<	• • • •	11/26/18	Sunrun	RUN	В	\$6,567,500	500,000	1	BO	12/17/18	\$13.14	\$10.90	1,219	2,000
0 11/8/18 Appin B \$5,280,168 200,000 1 BO 12/17/18 \$24,68 \$24,93 1,587 440 0 0.5 12/17/18 State Materials HY AB \$4,688,940 76,224 16 CB,DIR 12/17/18 \$51,22 \$1,43 55 30 1 12/17/18 Barter AB'/B \$4,088,205 343,677 18 DOIDR 12/17/18 \$52,22 \$1,43 55 30 1 12/17/18 Barter BB \$3,266,750 15,000 1 BO 12/17/18 \$4,02 31,14 440 1 12/17/18 Barter S3,264,64 31,101 1 BO 12/17/18 \$4,02 1,140 1 12/17/18 Marker B \$3,264,26 300,000 2 BO/DR 12/2/18 \$5,173 2 22,72 22,27 22,27 22,27 22,27 22,27 22,27 22,27 22,27 22,27		5 12/21/18	AllianceBernstein LP	AB	В	\$6,354,141	254,675	1	0	12/21/18	\$24.95	\$24.29	2,341	810
O District District <thdistrict< th=""> District Dis</thdistrict<>	0 00 +1	12/13/18	Chesapeake Energy	CHK	В	\$5,574,630	2,655,000	5	CEO,CFO,DIR,VP	12/20/18	\$2.10	\$1.90	1,736	50,130
+1 12/10/18 Repr. Alex, B B*,B 54,068,203 3,346,677 1 BO,DR 12/17/18 \$12.2 \$1.43 55 30 +1 12/17/18 Brings BDC AB,B \$4,068,203 3,346,677 1 BO,DR 12/21/18 \$1.22 \$1.43 55 30 +1 12/17/18 Brings BDC AB,B \$4,068,203 \$45,060 3 AO,BO,CFO,FO 12/21/18 \$1.43 55 30 +1 12/17/18 Brings BDC AB,B \$3,066,770 1 BO,DR 12/19/18 \$1.455 \$4.28 311 440 +1 12/17/18 Mark B \$3,266,470 100,000 2 BO,DR,G,SEC,VP 12/21/18 \$11.766 \$11.321 8,400 1,40	000 0	11/8/18	Appian	APPN	В	\$5,280,168	200,000	1	BO	12/17/18	\$26.40	\$24.93	1,587	480
+1 12/17/18 Barring BDC BBDC ABL \$4/026.335 433.600 1 AO,BO,CFO,FO 12/21/18 \$9/24 \$8.83 433 420 +0 11/19/18 Eagle Buk Shipping EGLE B \$3/266.750 515,000 1 BO 12/13/18 \$9/24 \$8.83 433 420 +1 12/17/18 Magnachip Semi MK B \$3/266.750 515,000 1 BO 12/13/18 \$1/27.00 \$5.16 2.13 330 +1 12/13/18 Magnachip Semi MK B \$3/266.750 515,000 1 BO 12/13/18 \$1/27.00 \$5.16 2.13 330 +1 12/13/18 Mayhawk Ind MHK B \$3/264.471 12/20.01 BO.DR 12/21/18 \$2.12 1.20 180 +2 12/19/18 Experion Therap ESPR B \$2.694.640 60/20.21 BO 12/20/18 \$3.98 \$3.84 2.24 960 +2 12/19/18 Mew Mm Finance MMFC B \$2.299.460 10/00.00 1 DR 12/17/18 \$2.29 179	0 00 +0.	5 12/17/18	Hyster-Yale Materials	HY	AB	\$4,689,840	76,284	16	CB,DIR,O	12/20/18	\$61.48	\$58.08	962	60
+1 11/19/18 Engle Buk Shipping EGLE B \$3,00000 1 BO 12/19/18 \$4,55 \$4,28 311 440 +1 12/17/18 Megnachip Semi MX B \$3,000,000 2 BO_DIR,GC,SEC,VP 12/19/18 \$10,75 \$9,78 2,820 2,230 +1 12/10/18 Platform Specialty Prod PAH B \$3,025,1713 25,030 12 BO_DIR,GC,SEC,VP 12/14/18 \$11.76 \$11.21 8,400 1,140 +0 12/10/18 Revion REV B \$2,934,259 466,631 50,0C,CF,DIR,PR 12/14/18 \$26.25 \$6.80 192 \$710 +2 12/11/18 Borave Fina DCVA B \$2,934,259 466,631 50,0C,CF,DIR,PR 12/17/18 \$47.3 \$3.92.51 1.053 \$710 +2 12/11/18 Borave Fina MEET B \$2,894,401 00,000 1 BO 12/17/18 \$47.3 \$3.92.51 1.050 710 +1 10/9/18 Meet MEET B \$2,894,401 100 12/17/18	●OO +1	12/19/18	Repro-Med Sys	REPR	JB*,B	\$4,068,205	3,346,677	1	BO,DIR	12/17/18	\$1.22	\$1.43	55	30
+1 12/17/18 Magaching Semi MX B 33.666,750 515.000 1 BO 12/13/18 \$10.75 \$3.78 2.820 2.230 +3 11/20/18 Pattorm Speciality Prod PAH B \$3.265,400 300,000 2 BO.DR.GC.SEC.VP 12/20/18 \$11.76 \$11.3.21 6.400 1.140 +0 12/13/18 Mohawk Ind MHK B \$3.265,400 300,000 2 BO.DR.GC.SEC.VP 12/20/18 \$11.76 \$11.3.21 6.400 1.140 +0 12/13/18 Mohawk Ind MHK B \$2.934,259 468,631 5 BO.CE.OC.FO.DIR.PR 12/21/18 \$6.26 \$6.60 192 870 +1 109/16 Meet MEET B \$2.58,646 652.221 1 BO 12/21/18 \$12.25 \$32.67 70 +2 12/19/18 Meet MEET B \$2.293,670 1 BO 12/20/18 \$12.25 \$32.25 \$70 +0 12/20/18 Nolar Rel B \$2.293,670 1 BO	0 00 +1	12/17/18	Barings BDC	BBDC	AB,B	\$4,026,335	435,600	3	AO,BO,CFO,FO	12/21/18	\$9.24	\$8.83	453	420
+3 11/20/18 Platform Specialty Prod PAH B \$3,225,400 300,000 2 BO,DR,GC,SEC,VP 12/20/18 \$10.75 \$9.78 2,820 2,230 +1 12/13/18 Mohawk Ind MHK B \$3,051,713 25,937 2 DIR 12/21/18 \$513.21 6,400 1,140 +0 12/21/18 Mohawk Ind MHK B \$2,964,413 125,000 1 BO,DR 12/21/18 \$52.37 \$22.78 1,204 150 +0 12/21/18 Box Dern Therap ESPR B \$2,964,641 50,000 1 BO 12/21/18 \$52.68 \$6.00 102 12/21/18 \$53.98 \$3.84 24 960 +1 10/9/18 Meet MEET B \$2,598,646 652.221 1 BO 12/21/18 \$12.25 \$2.617,57 120.00 1 BU 12/21/18 \$12.29 \$2.115 2.264 940 940 92/21/18	000 +0	11/19/18	Eagle Bulk Shipping	EGLE	В	\$3,786,246	831,610	1	BO	12/19/18	\$4.55	\$4.28	311	440
 +1 12/13/18 Mehawk Ind MHK B \$3,051,713 25,937 2 DIR 12/14/18 \$117.66 \$113.21 8,400 1,40 +0 12/10/18 Revion REV B \$2,964,413 125,000 1 BO,DIR 12/21/18 \$23.72 \$22.78 1,204 150 +2 12/21/18 Revion Therap ESPR B \$2,864,070 60,000 1 BO,DIR, 12/21/18 \$3,28 \$3,38 \$3,84 284 960 +2 12/19/18 Esperion Therap ESPR B \$2,598,646 652,221 1 BO 12/20/18 \$3,38 \$3,38 284 960 +2 12/19/18 Iswath Finance NMFC B \$2,297,73 20,00,660 12,45,135 1 BO 12/20/18 \$1,61 \$1,57 34 110 +0 12/17/18 S1,61 \$1,57 34 110 +0 12/17/18 S1,64 50,000 1 DIR 12/16/18 \$1,61 \$1,57 34 110 +0 12/17/18 S1,64,943 50,000 1 DIR 12/17/18 \$1,61 \$1,57 34 110 +0 12/17/18 S1,64,943 50,000 1 DIR 12/17/18 S1,64	0 00 +1	12/17/18	Magnachip Semi	MX	В	\$3,606,750	515,000	1	BO	12/13/18	\$7.00	\$6.16	213	330
+0 12/10/18 Revion REV B \$2,964,413 125,000 1 BO,DIR 12/11/18 \$23,72 \$2,278 1,204 150 +2 12/10/18 Bova Pharm DOVA B \$2,394,259 466,831 5 BO,CEO,CFO,DIR,PR 12/21/18 \$62.06 56.80 192 870 +4 10/9/18 Meet MEET B \$2,580,466 652,221 1 BO 12/20/18 \$33.98 \$3.84 284 980 +2 12/19/18 NuMar Energy LP NS B \$2,281,767 200,805 3 COO,DIR,PR 12/17/18 \$12.254 \$12.25 932 570 +0 12/16/18 NuMar Energy LP NS B \$2,281,461 100,000 1 DIR 12/17/18 \$12.254 \$12.25 \$32.573 17.9 170 180 +0 12/12/18 NuMar Energy LP NS B \$1,854,168 12.000 2 B0,SO,VP 12/20/18 \$1.61 \$1.57 31.36 608 1.000	••• +3	11/20/18	Platform Specialty Proc	HAP I	В	\$3,225,400	300,000	2	BO,DIR,GC,SEC,VP	12/20/18	\$10.75	\$9.78	2,820	2,230
 +2 12/21/18 Dova Pharm DOVA B \$2,934,259 468,631 5 BO,CEO,CFO,DIR,PR 12/21/18 \$6,26 \$6,80 192 \$70 +0.5 12/19/18 Beprion Therap ESPR B \$2,686,070 60,000 1 BO 12/21/18 \$3,28 \$3,84 284 960 +2 12/19/18 Weith Finance NMFC B \$2,2517,671 200,805 CO,DIR,PR 12/17/18 \$3,125 \$12,225 932 570 +0 12/18/18 NuStar Energy LP NS B \$2,209,460 100,000 1 DIR 12/17/18 \$1,254 \$1,225 932 940 +0 12/20/18 Red Lion Hotels R.H B \$2,209,020 1,261,135 1 BO 12/17/18 \$1,61 \$1,67 34 100 +0 12/20/18 \$1,610 \$1,67 34 100 +0 12/21/18 Bolog 12/17/18 \$1,610 \$1,67 34 100 +0 12/20/18 \$1,610 \$1,67 34 100 +0 12/20/18 \$1,610 \$1,610 20,000 20,000 20,000 10,001 10,000 10,000 10,000 10,000 10,000 12/20/18 \$1,635 10,000<	0 00 +1	12/13/18	Mohawk Ind	MHK	В	\$3,051,713	25,937	2	DIR	12/14/18	\$117.66	\$113.21	8,400	1,140
•0.5 12/19/18 ESPR B \$2,864,070 60,000 1 BO 12/17/18 \$47.73 \$39.26 1,053 710 •1 10/9/18 Meet MEET B \$2,599,646 652,221 1 BO 12/17/18 \$3.98 \$3.84 284 960 •2 12/19/18 Nwstar Energy LP NS B \$2,298,460 100,000 1 DIR 12/17/18 \$12.254 \$12.25 932 570 •0 12/18/18 Nustar Energy LP NS B \$2,298,460 100,000 1 DIR 12/17/18 \$12.54 \$12.25 932 570 •0 12/20/18 Red Lon hotes RLH B \$2,219.723 303.675 1 BO 12/20/18 \$1.51 \$1.357 34 110 •1 12/17/18 Radius Health RDUS B \$1.854,168 123,000 2 BO_SO,VP 12/20/18 \$1.63.20 \$2.263 2.552 460	000 +0	12/10/18	Revlon	REV	В	\$2,964,413	125,000	1	BO,DIR	12/21/18	\$23.72	\$22.78	1,204	150
ord Bit 1 D Dist 100 D Dist 100 Dist 100 <thdist 100<="" th=""> <thdist 100<="" th=""> <th< td=""><td>••• +2</td><td>12/21/18</td><td>Dova Pharm</td><td>DOVA</td><td>В</td><td>\$2,934,259</td><td>468,631</td><td>5</td><td>BO,CEO,CFO,DIR,PR</td><td>12/21/18</td><td>\$6.26</td><td>\$6.80</td><td>192</td><td>870</td></th<></thdist></thdist>	••• +2	12/21/18	Dova Pharm	DOVA	В	\$2,934,259	468,631	5	BO,CEO,CFO,DIR,PR	12/21/18	\$6.26	\$6.80	192	870
+2 12/19/18 New Mith Finance NMFC B \$2,517,671 200,805 3 COO,DIR,PR 12/17/18 \$12.54 \$12.55 932 570 • 0 12/18/18 Nustar Energy LP NS B \$2,298,460 100,000 1 DIR 12/17/18 \$22.98 \$21.15 2,264 940 • 0 12/12/18 Rol Lion Hotels RLH B \$2,219,723 303,675 1 BO 12/10/18 \$1.61 \$1.57 34 110 • 0 12/17/18 Boleno Therap SLNO JB* \$2,000,060 1.245,135 1 BO 12/19/18 \$1.61 \$1.57 34 110 • 0.12/17/18 Salue Health RDUS B \$1.849,580 50,000 1 CB,CEO,DIR,PR 12/14/18 \$36.9 \$36.10 6.430 2,900 • 11/12/17/18 Salue Gon TF FUND B \$1.678,546 275,000 1 BO,DIR <td>000 +0.</td> <td>5 12/19/18</td> <td>Esperion Therap</td> <td>ESPR</td> <td>В</td> <td>\$2,864,070</td> <td>60,000</td> <td>1</td> <td>BO</td> <td>12/17/18</td> <td>\$47.73</td> <td>\$39.26</td> <td>1,053</td> <td>710</td>	000 +0.	5 12/19/18	Esperion Therap	ESPR	В	\$2,864,070	60,000	1	BO	12/17/18	\$47.73	\$39.26	1,053	710
O +0 12/18/18 NSLat Energy LP NS B \$2,298,460 100,000 1 DIR 12/17/18 \$22.98 \$21.15 2,264 940 0 +0 12/20/18 Red Lion Hotels RLH B \$2,219,723 303,675 1 BO 12/20/18 \$7.31 \$7.29 179 180 0 +0 12/21/18 Soleno Therap SLNO JB* \$2,000,060 1,245,135 1 BO 12/17/18 \$1.61 \$1.57 34 110 0 12/17/18 Radius Health RDUS B \$1.849,580 50.000 1 CB,CEO,DIR,PR 12/14/18 \$36.99 \$36.10 6,430 2.900 0 +1 11/23/18 US Concrete USCR B \$1,684,443 50,000 1 DR 12/14/18 \$36.99 \$36.10 6,643 2.900 0 +1 12/31/18 Byrott Focus Tr FUND B \$1,645,364 275,000 1	0 00 +1	10/9/18	Meet	MEET	В	\$2,598,646	652,221	1	BO	12/20/18	\$3.98	\$3.84	284	960
In In<	••• +2	12/19/18	New Mtn Finance	NMFC	В	\$2,517,671	200,805	3	COO,DIR,PR	12/17/18	\$12.54	\$12.25	932	570
10 12/21/18 Soleno Therap SLNO JB* \$2,00,00 1,245,135 1 BO 12/21/18 \$1,61 \$1,15 \$1,15 \$1,10 \$1,11 \$1,10 \$1,11 \$1,25,13 \$1 BO \$1,21/1/18 \$1,51 \$1,31 \$1,00 \$1,00 \$1,00 \$1,10 \$1,10 \$1,10 \$1,10 \$1,10 \$1,10 \$1,10 \$1,10 \$1,10 \$1,11 \$1,10 \$1,11 \$1,11 \$1,11 \$1,11 \$1,11 \$1,11 \$1,11 \$1,11 \$1,11 \$1,11 \$1,11 \$1,11 \$1,11	000 +0	12/18/18	NuStar Energy LP	NS	В	\$2,298,460	100,000	1	DIR	12/17/18	\$22.98	\$21.15	2,264	940
b 12/17/18 Radius Health RDUS B \$1,841,68 123,000 2 BO,SO,VP 12/20/18 \$1,63 608 1,000 +0.5 12/17/18 Radius Health RDUS B \$1,849,580 50,000 1 CB,CCO,DIR,PR 12/17/18 \$13.66 608 1,000 +0.5 12/17/18 Radius Health RDUS B \$1,849,580 50,000 1 DIR 12/17/18 \$13.66 6430 2,900 +1 11/2/17/18 Sport Focus Tr FUND B \$1,678,546 275,000 1 BO,DIR 12/17/18 \$6.10 \$5.51 143 140 +1 11/2/18 Sport Focus Tr FUND B \$1,678,546 275,000 1 BO,DIR 12/14/18 \$6.10 \$5.51 143 140 +1 10/31/18 GMS GMS B \$1,645,383 106,160 2 DIR 12/20/18 \$16.95 150 40 +1/17/18 Spnaloy	000 +0	12/20/18	Red Lion Hotels	RLH	В	\$2,219,723	303,675	1	BO	12/20/18	\$7.31	\$7.29	179	180
+0.5 12/17/18 HD Supply HDS B \$1,849,580 50,000 1 CB,CEO,DIR,PR 12/14/18 \$36.99 \$36.10 6,430 2,900 +1 11/23/18 US Concrete USCR B \$1,684,443 50,000 1 DIR 12/17/18 \$33.69 \$32.83 552 460 +1 11/23/18 US Concrete USCR B \$1,678,546 275,000 1 BO,DIR 12/17/18 \$33.69 \$32.83 552 460 +1 12/17/18 Sport Focus Tr FUND B \$1,678,546 275,000 1 BO,DIR 12/18/18 \$6.10 \$5.51 143 140 +1 10/31/18 GMS GMS B \$1,665,383 106,160 2 DIR 12/20/18 \$6.49 \$6.54 218 650 +0 11/7/18 Synalloy SYNL B \$1,545,506 91,466 2 BO,CEO,DIR,PR 12/20/18 \$16.95 150 40 +0.5 12/19/18 Dynasil of Amer DYSL JB* \$1,428,188 96,175 3 BO,O 12/18/	000 +0	12/21/18	Soleno Therap	SLNO	JB*	\$2,000,060	1,245,135	1	BO	12/19/18	\$1.61	\$1.57	34	110
+1 11/23/18 US Concrete USCR B \$1,684,443 50,000 1 DR 12/17/18 \$33.69 \$32.83 552 460 +1 12/17/18 Sportt Focus Tr FUND B \$1,678,546 275,000 1 BO,DIR 12/18/18 \$6.10 \$5.51 143 140 +1 10/31/18 GMS GMS B \$1,665,383 106,160 2 DIR 12/14/18 \$15.69 \$14.66 604 1,160 +0 11/7/18 Del Friscos Rest DFRG B \$1,641,316 253,000 1 BO 12/20/18 \$16.95 150 40 +0.5 12/21/18 Sinesone Banc LMST B \$1,545,506 91,466 2 BO,CEO,DIR,PR 12/20/18 \$13.23 \$13.10 98 20 +0.5 12/21/18 Diracis on the and	000 +0	12/17/18	Radius Health	RDUS	В	\$1,854,168	123,000	2	BO,SO,VP	12/20/18	\$15.07	\$13.36	608	1,000
+1 12/17/18 Sprott Focus Tr FUND B \$1,678,546 275,000 1 BO,DIR 12/18/18 \$6.10 \$5.51 143 140 +1 10/31/18 GMS GMS B \$1,665,383 106,160 2 DIR 12/14/18 \$15.69 \$14.66 604 1,160 +0 11/7/18 Del Friscos Rest DFRG B \$1,641,316 253,000 1 BO 12/20/18 \$6.49 \$6.54 218 650 +1 12/20/18 Synalloy SYNL B \$1,545,506 91,466 2 BO,CEO,DIR,PR 12/20/18 \$16.95 150 40 +0.5 12/21/18 Limestone Banc LMST B \$1,545,000 1,450,000 1 CEO,DIR,PR 12/20/18 \$13.23 \$13.10 98 20 +0.5 12/19/18 Bynasil of Amer DYSL JB* \$1,428,188 96,175 3 BO,O 12/17/18 \$14.85 \$12.39 742 370 +0.5 12/10/18 Trinity Ind TRN B \$1,298,519	0 00 +0.	5 12/17/18	HD Supply	HDS	В	\$1,849,580	50,000	1	CB,CEO,DIR,PR	12/14/18	\$36.99	\$36.10	6,430	2,900
+1 10/31/18 GMS GMS B \$1,665,383 106,160 2 DIR 12/14/18 \$15.69 \$14.66 604 1,160 +0 11/7/18 Del Friscos Rest DFRG B \$1,641,316 253,000 1 BO 12/20/18 \$6.49 \$6.54 218 650 +1 12/20/18 Synalloy SYNL B \$1,545,506 91,466 2 BO,CEO,DIR,PR 12/20/18 \$16.95 150 40 +0.5 12/21/18 Limestone Banc LMST B \$1,514,302 114,494 2 DIR 12/20/18 \$13.23 \$13.10 98 20 +0.5 12/19/18 Dynasil of Amer DYSL JB* \$1,450,000 1,450,000 1 CEO,DIR,PR 12/18/18 \$1.00 \$0.90 16 110 +2 12/14/18 Compass Diversified CODI B,JB* \$1,428,188 96,175 3 BO,O 12/17/18 \$14.85 \$12.39 742 370 +0.5 12/10/18 Trinity Ind TRN B \$1,229,115 40,000 2 CEO,DIR 12/17/18 <td< td=""><td>000 +1</td><td>11/23/18</td><td>US Concrete</td><td>USCR</td><td>В</td><td>\$1,684,443</td><td>50,000</td><td>1</td><td>DIR</td><td>12/17/18</td><td>\$33.69</td><td>\$32.83</td><td>552</td><td>460</td></td<>	0 00 +1	11/23/18	US Concrete	USCR	В	\$1,684,443	50,000	1	DIR	12/17/18	\$33.69	\$32.83	552	460
H H	0 00 +1	12/17/18	Sprott Focus Tr	FUND	В	\$1,678,546	275,000	1	BO,DIR	12/18/18	\$6.10	\$5.51	143	140
+1 12/20/18 Synalloy SYNL B \$1,545,506 91,466 2 BO,CEO,DIR,PR 12/20/18 \$16.90 \$16.95 150 40 +0.5 12/21/18 Limestone Banc LMST B \$1,514,302 114,494 2 DIR 12/20/18 \$13.23 \$13.10 98 20 +0.5 12/19/18 Dynasil of Amer DYSL JB* \$1,450,000 1,450,000 1 CEO,DIR,PR 12/18/18 \$1.00 \$0.90 16 110 +2 12/14/18 Compass Diversified CODI B,JB* \$1,428,188 96,175 3 BO,O 12/17/18 \$14.85 \$12.39 742 370 +0.5 12/10/18 Trinity Ind TRN B \$1,298,519 59,239 1 BO,DIR 12/13/18 \$21.92 \$19.81 2,898 2,630 0 12/20/18 CNX Res CNX B \$1,129,010 100,000 1 DIR 12/17/18 \$30.73 \$28.37 681 560 0 12/20/18 CNX Res CNX B	0 00 +1	10/31/18	GMS	GMS	В	\$1,665,383	106,160	2	DIR	12/14/18	\$15.69	\$14.66	604	1,160
+0.5 12/21/18 Limestone Banc LMST B \$1,514,302 114,494 2 DIR 12/20/18 \$13.23 \$13.10 98 20 +0.5 12/19/18 Dynasil of Amer DYSL JB* \$1,450,000 1 CEO,DIR,PR 12/18/18 \$1.00 \$0.90 16 110 +0.5 12/19/18 Dynasil of Amer DYSL JB* \$1,450,000 1 CEO,DIR,PR 12/18/18 \$1.00 \$0.90 16 110 +2 12/14/18 Compass Diversified CODI B,JB* \$1,428,188 96,175 3 B0,O 12/17/18 \$14.85 \$12.39 742 370 +0.5 12/10/18 Trninity Ind TRN B \$1,298,519 59,239 1 BO,DIR 12/17/18 \$21.92 \$19.81 2,898 2,630 0 12/20/18 CNX Res CNX B \$1,291,15 40,000 2 CEO,DIR 12/17/18 \$30.73 \$28.37 681 560 0 12/20/18 CNX Res CNX B \$1,195,000	000 +0	11/7/18	Del Friscos Rest	DFRG	В	\$1,641,316	253,000	1	BO	12/20/18	\$6.49	\$6.54	218	650
+0.5 12/19/18 Dynasil of Amer DYSL JB* \$1,450,000 1,450,000 1 CEO,DIR,PR 12/18/18 \$1.00 \$0.90 16 110 +2 12/14/18 Compass Diversified CODI B,JB* \$1,428,188 96,175 3 BO,O 12/17/18 \$14.85 \$12.39 742 370 +0.5 12/10/18 Trinity Ind TRN B \$1,298,519 59,239 1 BO,DIR 12/17/18 \$14.85 \$12.39 742 370 0 12/10/18 Trinity Ind TRN B \$1,299,115 40,000 2 CEO,DIR 12/17/18 \$30.73 \$28.37 681 560 0 12/20/18 CNX Res CNX B \$1,195,000 100,000 1 DIR 12/17/18 \$11.69 2,380 3,590 +0 12/20/18 CNX Res CNX B \$1,195,000 100,000 1 BO 12/17/18 \$11.69 2,380 3,590 +0 12/14/18 Koppers KOP B \$1,120,650 65,000 <td>000 +1</td> <td>12/20/18</td> <td>Synalloy</td> <td>SYNL</td> <td>В</td> <td>\$1,545,506</td> <td>91,466</td> <td>2</td> <td>BO,CEO,DIR,PR</td> <td>12/20/18</td> <td>\$16.90</td> <td>\$16.95</td> <td>150</td> <td>40</td>	0 00 +1	12/20/18	Synalloy	SYNL	В	\$1,545,506	91,466	2	BO,CEO,DIR,PR	12/20/18	\$16.90	\$16.95	150	40
+2 12/14/18 Compass Diversified CODI B, JB* \$1,428,188 96,175 3 BO,O 12/17/18 \$14.85 \$12.39 742 370 +0.5 12/10/18 Trinity Ind TRN B \$1,298,519 59,239 1 BO,DIR 12/17/18 \$14.85 \$12.39 742 370 0 12/13/18 Patrick Ind PATK B \$1,299,115 40,000 2 CEO,DIR 12/17/18 \$30.73 \$28.37 681 560 +0 12/20/18 CNX Res CNX B \$1,195,000 100,000 1 DIR 12/17/18 \$11.69 2,380 3,590 +0 12/20/18 CNX Res CNX B \$1,195,000 100,000 1 DIR 12/17/18 \$11.69 2,380 3,590 +0 12/14/18 Cumulus Media CMLS B \$1,195,000 100,000 1 BO 12/17/18 \$10.79 \$10.11 167 40 +2 12/14/18 Koppers KOP B \$1,120,650 65,000 3 CFO,TR,VP 12/18/18 \$17.24 \$16.80	0 00 +0.	5 12/21/18	Limestone Banc	LMST	В	\$1,514,302	114,494	2	DIR	12/20/18	\$13.23	\$13.10	98	20
+2 12/11/16 Compute Division of CODI Dial \$1,298,519 59,239 1 BO,DIR 12/13/18 \$21.92 \$19.81 2,898 2,630 0 12/13/18 Patrick Ind PATK B \$1,298,519 59,239 1 BO,DIR 12/13/18 \$21.92 \$19.81 2,898 2,630 0 12/13/18 Patrick Ind PATK B \$1,229,115 40,000 2 CEO,DIR 12/17/18 \$30.73 \$28.37 681 560 0 12/20/18 CNX Res CNX B \$1,195,000 100,000 1 DIR 12/17/18 \$11.69 2,380 3,590 0 12/14/18 Cumulus Media CMLS B \$1,195,000 100,000 1 DIR 12/17/18 \$11.69 2,380 3,590 0 12/14/18 Koppers KOP B \$1,195,050 65,000 3 CFO,TR,VP 12/18/18 \$17.24 \$16.80 345 420 0 12/17/18 JM Smucker Co SJM B \$1,080,843 11,000 <t< td=""><td>000 +0.</td><td>5 12/19/18</td><td>Dynasil of Amer</td><td>DYSL</td><td>JB*</td><td>\$1,450,000</td><td>1,450,000</td><td>1</td><td>CEO,DIR,PR</td><td>12/18/18</td><td>\$1.00</td><td>\$0.90</td><td>16</td><td>110</td></t<>	0 00 +0.	5 12/19/18	Dynasil of Amer	DYSL	JB*	\$1,450,000	1,450,000	1	CEO,DIR,PR	12/18/18	\$1.00	\$0.90	16	110
0 12/13/18 Patrick Ind PATK B \$1,229,115 40,000 2 CEO,DIR 12/17/18 \$30.73 \$28.37 681 560 0 12/20/18 CNX Res CNX B \$1,195,000 100,000 1 DIR 12/17/18 \$11.95 \$11.69 2,380 3,590 +0 12/14/18 Cumulus Media CMLS B \$1,195,000 100,000 1 BO 12/17/18 \$10.79 \$10.11 167 40 +2 12/14/18 Koppers KOP B \$1,120,650 65,000 3 CFO,TR,VP 12/18/18 \$17.24 \$16.80 345 420 +0 12/7/18 J M Smucker Co SJM B \$1,080,843 11,000 1 DIR 12/19/18 \$98.26 \$96.10 10,932 1,440 +1 11/20/18 Lazydays LAZY B \$1,060,720 198,627 1 BO,DIR 12/14/18 \$15.12 \$11.24 987 1,020 +1 11/9/18 Camping World CWH B \$1,059,779 70,108 1 BO 12/14/18 \$15.	••• +2	12/14/18	Compass Diversified	CODI	B,JB*	\$1,428,188	96,175	3	BO,O	12/17/18	\$14.85	\$12.39	742	370
+0 12/20/18 CNX Res CNX B \$1,195,000 100,000 1 DIR 12/19/18 \$11.95 \$11.69 2,380 3,590 •0 12/14/18 Cumulus Media CMLS B \$1,195,000 100,000 1 DIR 12/19/18 \$11.95 \$11.69 2,380 3,590 •0 12/14/18 Cumulus Media CMLS B \$1,187,130 110,000 1 BO 12/17/18 \$10.79 \$10.11 167 40 •1 12/14/18 Koppers KOP B \$1,120,650 65,000 3 CFO,TR,VP 12/18/18 \$17.24 \$16.80 345 420 •1 12/7/18 J M Smucker Co SJM B \$1,080,843 11,000 1 DIR 12/19/18 \$98.26 \$96.10 10,932 1,440 •1 11/20/18 Lazydays LAZY B \$1,060,720 198,627 1 BO,DIR 12/14/18 \$5.34 \$4.96 42 30 •1 11/9/18 Camping World CWH B \$1,059,779 70,108 BO 12/14/18 \$15.12	0 00 +0.	5 12/10/18	Trinity Ind	TRN	В	\$1,298,519	59,239	1	BO,DIR	12/13/18	\$21.92	\$19.81	2,898	2,630
+0 12/14/18 Cumulus Media CMLS B \$1,187,130 110,000 1 BO 12/17/18 \$10.79 \$10.11 167 40 •0 +2 12/14/18 Koppers KOP B \$1,120,650 65,000 3 CFO,TR,VP 12/18/18 \$17.24 \$16.80 345 420 •0 12/17/18 J M Smucker Co SJM B \$1,080,843 11,000 1 DIR 12/19/18 \$98.26 \$96.10 10,932 1,440 •1 11/20/18 Lazydays LAZY B \$1,060,720 198,627 1 BO,DIR 12/14/18 \$5.34 \$4.96 42 30 •1 11/9/18 Camping World CWH B \$1,059,779 70,108 1 BO 12/14/18 \$15.12 \$11.24 987 1,020	000 0	12/13/18	Patrick Ind	PATK	В	\$1,229,115	40,000	2	CEO,DIR	12/17/18	\$30.73	\$28.37	681	560
• 1 11/19/18 Camping World CWH B \$1,050 100000 10000 10000	000 +0	12/20/18	CNX Res	CNX	В	\$1,195,000	100,000	1	DIR	12/19/18	\$11.95	\$11.69	2,380	3,590
+0 12/7/18 J M Smucker Co SJM B \$1,080,843 11,000 1 DIR 12/19/18 \$98.26 \$96.10 10,932 1,440 • 0 +1 11/20/18 LAZY B \$1,060,720 198,627 1 BO,DIR 12/14/18 \$5.34 \$4.96 42 30 • +1 11/9/18 Camping World CWH B \$1,059,779 70,108 1 BO 12/14/18 \$15.12 \$11.24 987 1,020	000 +0	12/14/18	Cumulus Media	CMLS	В	\$1,187,130	110,000	1	BO	12/17/18	\$10.79	\$10.11	167	40
Image: Second Control Contrecontrol Control Control Control Control Control Con	••• +2	12/14/18	Koppers	KOP	В	\$1,120,650	65,000	3	CFO,TR,VP	12/18/18	\$17.24	\$16.80	345	420
• +1 11/9/18 Camping World CWH B \$1,059,779 70,108 1 BO 12/14/18 \$15.12 \$11.24 987 1,020	000 +0	12/7/18	J M Smucker Co	SJM	В	\$1,080,843	11,000	1	DIR	12/19/18	\$98.26	\$96.10	10,932	1,440
	0 00 +1	11/20/18	Lazydays	LAZY	В	\$1,060,720	198,627	1	BO,DIR	12/14/18	\$5.34	\$4.96	42	30
●○○ +0.5 12/18/18 PVH	0 00 +1	11/9/18	Camping World	CWH	В	\$1,059,779	70,108	1	BO	12/14/18	\$15.12	\$11.24	987	1,020
	000 +0.	5 12/18/18	PVH	PVH	В	\$1,053,854	11,050	2	CB,CEO,DIR	12/14/18	\$95.37	\$88.72	6,719	1,480



COMPANIES WITH LARGEST AGGREGATE FORM 4 SALES

Includes Transaction Types S, AS, JS*, Filed at the SEC in the past week. Top 50 only.

Generated with Special Screens tool at InsiderInsights.com using Pre-Programmed Screen: "Largest Company Sales (Week) + All Ratings"

				Total				Latest	Ave.		Mkt	10-Day
Insider	Rating		Trans	Sale	Shares			Trans	Sale	Recent	Cap	Ave Vol
Rating*	Date Company	Ticker	Type(s)*	Value		# Ins	siders - Title(s)*	Date	Price	Price	(mm)	(m)
	11/23/18 Walmart	WMT	S	\$340,287,168	3,677,658	3	BO,DIR	12/19/18	\$92.53	\$87.13	253,135	10,500
0-000	10/17/18 salesforcecom	CRM	AS	\$40,621,926	304,784	2	CB,CEO,DIR	12/21/18	\$133.28	\$122.91	94,026	7,500
0-000	12/6/18 Alphabet	GOOG	AS	\$10,414,958	10,000	1	CEO,DIR	12/19/18	\$1,041	\$991.25	685,287	2,340
0000 0	12/20/18 Amer Finl	AFG	S	\$9,998,831	109,768	1	CEO,DIR,PR	12/19/18	\$91.09	\$88.24	7,876	470
0-000	11/14/18 RealPage	RP	AS,S	\$9,481,314	203,000	3	BO,CB,CEO,DIR,PR,VF		\$46.71	\$45.15	4,240	850
0-00	11/9/18 Square	SQ	AS	\$9,296,307	153.035		BO,CB,CEO,DIR,O,PR		\$60.75	\$52.51	21,713	17,440
000 0	12/7/18 Pluralsight	PS	S	\$9,257,826	387,600	1	BO,DIR,F	12/14/18	\$23.89	\$19.61	2,649	880
0-00	12/21/18 SL Green Rity	SLG	S	\$9,155,439	110,000	1	CEO,DIR	12/21/18	\$83.23	\$80.48	6,863	1,040
000 0	11/19/18 Goosehead Insurance		AS	\$7,760,961			BO,CEO,CFO,DIR	12/18/18	\$27.22	\$23.70	860	200
0-000	12/3/18 Cracker Barrel	CBRL	S	\$7,236,050	42,258	1	BO	12/18/18	\$171.24	\$161.67	3,886	440
0-00	11/19/18 Morningstar	MORN	AS	\$7,054,689	62,054	1	BO,CB,DIR	12/20/18	\$113.69	\$106.73	4,553	120
000 0	12/13/18 Patrick Ind	PATK	S	\$6,746,853	222,347	1	DIR	12/17/18	\$30.34	\$28.37	681	560
A A A	12/18/18 Nutanix	NTNX	AS,S	\$6,223,322	150,921	3	DIR,0,00,VP	12/19/18	\$41.24	\$36.47	6,533	3,120
000	11/26/18 Kellogg	K	AS	\$5,768,520	100,000	1	BO	12/20/18	\$57.69	\$57.64	20,002	2,960
	11/14/18 ServiceNow	NOW	AS	\$5,653,037	32,500	1	DIR	12/17/18	\$173.94	\$162.00	29,047	2,130
000 -0	12/13/18 VMware	VMW	S	\$5,600,000	35,000	1	DIR	12/14/18	\$160.00	\$144.99	59,430	1,830
000 -0	12/7/18 Coupa Software	COUP	S,AS	\$4,521,732	74,404		AO.CEO.CFO.DIR.O	12/21/18	\$60.77	\$54.57	3,244	1,230
0-00	12/6/18 Mongodb	MDB	S	\$4,458,038	50,625	1	SO	12/19/18	\$88.06	\$72.95	3,910	1,480
000	11/16/18 Clorox Co	CLX	AS	\$4,067,964	25,317	1	COO,VP	12/17/18	\$160.68	\$154.51	19,724	1,230
0-000	12/17/18 Zscaler	ZS	AS	\$4,044,012	102,387	3	CTO,DIR,LO,O,OO,VP		\$39.50	\$34.96	4,274	2,540
000 -0	12/21/18 Docusign	DOCU	AS,S	\$3,962,311	95,968	2	DIR	12/21/18	\$41.29	\$37.99	6,278	4,530
0-000	12/10/18 Zuora	ZUO	S,AS	\$3,830,520	209,481	2	DIR	12/20/18	\$18.29	\$16.08	1,745	1,880
0-000	12/6/18 Workday	WDAY	AS,S	\$3,754,465	24,071	3	GC,O,PR,SEC,VP	12/20/18	\$155.97	\$144.93	31,595	2,910
000	11/14/18 Fiserv	FISV	AS	\$3,699,032	50,000	1	CEO,DIR,PR	12/19/18	\$73.98	\$70.92	28,260	2,570
0 00 -1	10/4/18 Acorda Therap	ACOR	S	\$3,688,812	228,710	1	BO	12/20/18	\$16.13	\$12.94	615	1,080
000	10/19/18 Vonage	VG	AS	\$3,665,333	400,000	1	DIR	12/19/18	\$9.16	\$8.19	1,962	2,810
0000 0	12/13/18 Genomic Health	GHDX	AS	\$3,339,527	50,000	1	CEO,DIR,PR	12/18/18	\$66.79	\$60.29	2,178	440
0-000	12/18/18 Five Below	FIVE	S	\$3,074,498	31,500	1	DIR	12/17/18	\$97.60	\$90.38	5,040	1,230
000	12/12/18 Okta	OKTA	AS	\$2,902,221		3	CFO,DIR	12/17/18	\$62.73	\$54.59	6,029	2,540
0-000	10/31/18 TPI Composites	TPIC	AS	\$2,832,210	115,822	1	DIR	12/19/18	\$24.45	\$23.50	811	2,040
000	11/20/18 Wayfair	W	AS,S	\$2,749,812	27,661	7	BO,CEO,CFO,COO	12/17/18	\$99.41	\$82.14	7,421	2,730
000 0	11/14/18 Tutor Perini	TPC	S	\$2,583,960	160,000	4	BO,CB,CEO,DIR	12/20/18	\$16.15	\$15.39	770	410
000	11/13/18 Humana	HUM	s	\$2,366,965	7,931	4	HR,IO,O,PR	12/18/18	\$298.44	\$274.64	37,677	1,370
000 -0	12/6/18 New Relic	NEWR	S,AS	\$2,288,381	27,002	3		12/20/18	\$84.75	\$74.03	4,217	710
0.0.0	12/19/18 Crispr Therap AG	CRSP	3,A3 S	\$2,288,381		1	DIR	12/20/18	\$29.85	\$22.73	1,180	880
	12/6/18 Twilio	TWLO	AS	\$2,170,898			BO,CEO,DIR,GC,SEC		\$86.32	\$76.15	7,616	5,080
000 -0	12/3/18 Guidewire Software	GWRE	AS,S	\$1,922,887			CEO,COO,DIR,GC,O		\$81.40	\$75.38	6,108	820
000 -0	12/6/18 HubSpot	HUBS	A3,3 AS	\$1,881,894	15,277	1	CEO,DIR	12/20/18	\$123.18	\$115.20	4,520	500
000 -0	12/4/18 Trade Desk	TTD	AS	\$1,845,513	15,000		CTO	12/18/18	\$123.03	\$106.55	4,608	1,290
0-000	11/1/18 Dolby LABS	DLB	AS	\$1,831,004	28,359		CEO,DIR,GC,PR,SEC	12/18/18	\$64.57	\$59.52	6,146	410
0-000	10/16/18 Veeva Sys	VEEV	AS	\$1,631,004	18,029		DIR,GC,SEC,VP		\$87.46	\$80.99	11,768	1,360
000		CNC						12/18/18		\$80.99		
^	12/20/18 Centene		AS	\$1,520,600	12,540			12/18/18 12/19/18			23,105	2,550
000	12/13/18 Fate Therap	FATE	S	\$1,519,156	108,998				\$13.94	\$11.50 \$44.01	2 095	1,130
0000 0	12/7/18 Teladoc Health	TDOC	AS	\$1,486,500	30,000	1	CEO,DIR COO,VP	12/19/18	\$49.55	\$44.01	3,085	2,160
A A A	12/11/18 Kroger Co	KR	S	\$1,404,039	47,946	2	*	12/18/18	\$29.28	\$27.40	21,858	7,720
000	12/21/18 Express	EXPR	S	\$1,288,654	240,425	1		12/20/18	\$5.36	\$4.99	342	2,380
000	10/9/18 Civitas Solutions		AS	\$1,283,519	73,393	2	CEO,DIR,IO,PR	12/19/18	\$17.49	\$17.46	631	770
000		ARWR	AS	\$1,252,800	90,000	1	CEO,DIR	12/19/18	\$13.92	\$11.21	1,034	1,900
000	12/21/18 CymaBay Therap	CBAY	S	\$1,123,589	142,381	1	DIR	12/18/18	\$7.89	\$6.54	389	850
0-000	12/20/18 EQGP LP	EQGP	S	\$1,117,383	56,263	1	DIR	12/18/18	\$19.86	\$19.93	6,028	1,100

LARGEST INDIVIDUAL PURCHASES (1-50)

Includes Transaction Types B, AB, JB^{*}, & selected OB.. Top 100 by dollar value, filed at the SEC in the past week. Note: If Insider Rating Date > 3 Months Old or Insider Rating is Bearish, Recent Buying Activity is Considered Insignificant. Generated with Special Screens tool at InsiderInsights.com using <u>Pre-Programmed Screen</u>: "Large Individual Buys (Week) + All Ratings".

							Tatal	Lataat	A			Dalta	Mist
Insid	≏r	Rating				Trans	Total Purch	Latest Trans	Ave. Purch	Recent	Subsequent	Delta %	Mkt Cap
Ratin		Date Insider Name	Title(s)	Company	Ticker	Type(s)*	Value	Date	Price	Price	Holdings	Own	(mm)
000	+1	12/21/18 40 North Latitude Fd	BO	W R Grace	GRA	B	\$101.7mm	12/21/18	\$ 60.81	\$60.72	17,328,276	11%	4,068
000	+1	10/18/18 Winder Inv Pte	во	Intl Flavors & Frag	IFF	В	\$56,260,337			\$128.21	93,837,090	0%	13,670
000	+0	12/21/18 Monroe James III	BO,CEO	Globalstar	GSAT	B,JB*	\$55,745,340			\$0.47	\$164.1mm	10%	591
000	0	12/20/18 Golden Harbor	во	Inseego	INSG	JB*	\$29,258,188	12/19/18	\$ 3.00	\$3.70	18,799,228	108%	272
000	0	11/14/18 Spruce House Parthip	BO	Carvana Co	CVNA	В	\$21,321,946			\$29.84	5,500,000	13%	4,299
000	+0.5	12/18/18 Perceptive Adv	BO	VBI Vaccines	VBIV	JB*	\$20,000,000			\$1.22	23,631,440	153%	111
000	+1	12/17/18 Denner Alexander J	DIR	Medicines	MDCO	В	\$17,311,330	12/20/18	\$ 20.15	\$17.26	8,293,000	12%	1,275
000	+2	12/21/18 Rachesky Mark H MD	DIR,BO	Lions Gate Ent	LGF.A	В	\$11,100,981	12/21/18	\$ 14.23	\$14.00	1,377,775	130%	1,275
000	+1	12/20/18 Viking Global Inv	во	Axovant Sciences	AXON	JB*	\$10,000,000	12/18/18	\$ 1.00	\$0.99	99,285,712	11%	154
000	+1	12/20/18 Viking Global Performa	r BO	Axovant Sciences	AXON	JB*	\$10,000,000	12/18/18	\$ 1.00	\$0.99	99,285,712	11%	154
000	+1	12/20/18 Qvt Associates Gp	во	Axovant Sciences	AXON	JB*	\$10,000,000	12/18/18	\$ 1.00	\$0.99	99,285,712	11%	154
000	+1	12/20/18 Machado Patrick	во	Axovant Sciences	AXON	JB*	\$10,000,000	12/18/18	\$ 1.00	\$0.99	99,285,712	11%	154
000	+1	12/20/18 Roivant Sciences	во	Axovant Sciences	AXON	JB*	\$10,000,000	12/18/18	\$ 1.00	\$0.99	99,285,712	11%	154
000	+1	12/20/18 Dexxon	во	Axovant Sciences	AXON	JB*	\$10,000,000	12/18/18	\$ 1.00	\$0.99	99,285,712	11%	154
000	+1	12/20/18 Lo Andrew	во	Axovant Sciences	AXON	JB*	\$10,000,000	12/18/18	\$ 1.00	\$0.99	99,285,712	11%	154
000		12/20/18 Svf Invs \	BO	Axovant Sciences	AXON	JB*	. , ,	12/18/18		\$0.99	99,285,712	11%	154
000	+0.5	12/18/18 Huang Yanping	во	Global Medical Reit	GMRE	JB*	\$9,999,999	12/14/18	\$ 9.00	\$9.00	3,715,611	43%	232
000	+0.5	12/18/18 Zhang Jing Guo	BO,DIR	Global Medical Reit	GMRE	JB*	\$9,999,999	12/14/18	\$ 9.00	\$9.00	3,715,611	43%	232
000		12/18/18 Zh Usa	BO	Global Medical Reit	GMRE	JB*	\$9,999,999			\$9.00	3,715,611	43%	232
000		12/20/18 Perelman Ronald O	BO,DIR	Scientific Games	SGMS	В	\$9,162,000	12/21/18	\$ 15.27	\$15.13	70,301,472	1%	1,388
000		11/26/18 Tiger Global Mgt	BO	Sunrun	RUN	В	\$6,567,500	12/17/18		\$10.90	17,817,200	3%	1,219
000		12/21/18 Axa Equitable	0	AllianceBernstein LP	AB	В	\$6,354,141			\$24.29	2,566,838	11%	2,341
000	0	11/8/18 Abdiel Cap Mgt	BO	Appian	APPN	В	\$5,280,168			\$24.93	7,273,491	3%	1,587
000	0	12/20/18 North Sound Trading	BO	Inseego	INSG	JB*	\$5,163,210			\$3.70	9,246,570	23%	272
000	+1	12/13/18 Dunham Archie W	DIR	Chesapeake Energy	CHK	В	\$5,082,000			\$1.90	13,294,750	22%	1,736
000	+1	12/19/18 Manko Joseph M Jr	BO,DIR	Repro-Med Sys	REPR	B,JB*	\$4,068,205			\$1.43	6,548,374	105%	55
000		12/17/18 Barings	BO,FO	Barings BDC	BBDC	AB	\$3,816,073			\$8.83	72,523,362	1%	453
000		11/19/18 Oaktree Cap Gp	BO	Eagle Bulk Shipping	EGLE	В	\$3,786,246			\$4.28	50,019,440	2%	311
000		12/17/18 Brigade Cap Mgt	BO	Magnachip Semi	MX	В	\$3,606,750			\$6.16	6,567,641	9%	213
000		12/10/18 Perelman Ronald O	BO,DIR	Revion	REV	В	\$2,964,413			\$22.78	90,346,640	0%	1,204
000		12/13/18 Balcaen Filip	DIR	Mohawk Ind	MHK	В	\$2,933,963			\$113.21	884,751	3%	8,400
000		12/19/18 Biotech Target NV	BO	Esperion Therap	ESPR	В	\$2,864,070			\$39.26	3,342,964	2%	1,053
000	+1	10/9/18 Luxor Cap	BO	Meet	MEET	В	\$2,598,646			\$3.84	3,933,497	20%	284
000		12/21/18 Manning Paul B	BO,DIR	Dova Pharm	DOVA	В	\$2,477,164			\$6.80	25,637,408	2%	192
000		12/18/18 Greehey William E	DIR	NuStar Energy LP	NS	В	\$2,298,460			\$21.15	9,058,682	1%	2,264
000		12/19/18 Klinsky Steven B	DIR	New Mtn Finance	NMFC	B	\$2,276,926			\$12.25	6,315,173	3%	932
000		12/20/18 Coliseum Cap Mgt	BO	Red Lion Hotels	RLH	B	\$2,219,723			\$7.29	3,554,039	9%	179
000		11/20/18 Franklin Martin E	BO,DIR	Platform Specialty Prod		B	\$2,192,000			\$9.78	2,419,500	9%	2,820
000		12/19/18 Pickens Thomas Boone		Astrotech	ASTC	OB	\$2,037,333			\$5.00	1,563,351	124%	2,020
000		12/17/18 Cox Christopher T	VP	Medicines	MDCO	В	\$2,008,950			\$17.26	334,955	51%	1,275
000		12/21/18 Feinberg Larry N	BO	Soleno Therap	SLNO	JB*	\$2,000,060			\$1.57	2,519,346	98%	34
000		12/18/18 Kariv Tomer	DIR	VBI Vaccines	VBIV	JB*	\$1,999,999			\$1.22	1,744,969	452%	111
000		12/17/18 Deangelo Joseph J	CB,CEO	HD Supply	HDS	B	\$1,849,580			\$36.10	292,618	21%	6,430
000		12/17/18 Biotech Growth N V	BO	Radius Health	RDUS	B	\$1,807,038			\$13.36	13,360,552	1%	608
000		11/23/18 Rossi Theodore P	DIR	US Concrete	USCR	B	\$1,684,443			\$32.83	146,822	52%	552
000	+1	12/17/18 George W Whitney	BO,DIR	Sprott Focus Tr	FUND	B	\$1,678,546			\$5.51	10,473,408	3%	143
000	+0	11/7/18 Armistice Cap	BO,DIK	Del Friscos Rest	DFRG	B	\$1,641,316			\$6.54	4,425,000	6%	218
000		12/13/18 Viola Vincent J	BO	Independent Bank	IBTX	OB	\$1,600,002			\$6.54	4,443,839	2%	1,387
000				GMS		B							
000	+1	10/31/18 Ross Ronald R	DIR		GMS		\$1,565,520			\$14.66	250,790	66%	604
-00	+1	12/20/18 Privet Fd Mgt	BO	Synalloy	SYNL	В	\$1,506,731	12/20/18	\$ 16.94	\$16.95	1,204,010	8%	150

See last page for the Key to Ratings, Titles & Transaction Type codes.

LARGEST INDIVIDUAL PURCHASES (Continued 51-100)

Includes Transaction Types B, AB, JB^{*}, & selected OB.. Top 100 by dollar value, filed at the SEC in the past week. Note: If Insider Rating Date > 3 Months Old or Insider Rating is Bearish, Recent Buying Activity is Considered Insignificant. Generated with Special Screens tool at InsiderInsights.com using <u>Pre-Programmed Screen</u>: "Large Individual Buys (Week) + All Ratings".

Inside Earling Total Unics Arc. Boold Discussion Arc. Boold Discussion Arc. Boold Boold Arc. Boold Boold Boold Boold Boold Boold Boold							Tatal	Lataat		A			Delte	N 41-th
Name Data Pace Pace <t< th=""><th>Insider</th><th>Rating</th><th></th><th></th><th></th><th>Trans</th><th>Total Purch</th><th>Latest Trans</th><th></th><th></th><th>Recent</th><th>Subsequent</th><th>Delta %</th><th>Mkt Can</th></t<>	Insider	Rating				Trans	Total Purch	Latest Trans			Recent	Subsequent	Delta %	Mkt Can
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● +1 119/15 Auram Cap Mgt LP BO Camping Word CWH B \$10,057,07 1214/16 \$ 5 15.12 51.12 355.800 2% 967 ● 0.5 1217/18 Ramma Athred M CB.DR Hyster-Yake Matherials HY A8 \$11.052.867.1 2% 962 ● +1 1128/18 Societal ka BO Oluco OTEL B \$11.037.164 15.122 55.05 12.77.08 4% 54 • 11.22/18 Stonda Matheria HY A8 \$10.37.164 12.20/18 \$ 10.32 97.8 456.666 28.8 2.820 • 0.1 12.01/18 Canual and matheria D Entangoenia (Canual Canual C	0 00 +1					В								
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••• ••3 11/20/18 Cape John Edward GC,VP Platform Specially Prod PAH B \$1,033,400 12/20/18 \$10,33 \$97.8 458,666 28% 2,820 0 0 12/6/18 Hamsen Cynthia L O Enrody ENR OB \$950,256 12/21/18 \$30,75 12/21/18 \$30,75 12/21/18 \$30,75 12/21/18 \$30,98 \$51,888.7 247,420 4% 6,71 0 12/21/18 Case Comment DIR CUInd LCI B \$949,800 12/11/18 \$3.098 \$52,87 66,531,908 4% 114 0 12/13/18 Case Comment DIR Portinger KOP B \$961,375 12/17/18 \$3.090 \$53,480 164,370 18% 445,370 18% 445,370 18% 445,370 18% 445,370 18% 445,370 18% 445,370 18% 445,370 18% 445,370 18% 445,470 18% 146,127/178 1471/18<			BO											
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O +0 12/18/18 Paul Cynthia DIR DSPG AB \$833,751 12/21/18 \$10.65 410.878 23% 238 • +0.5 12/21/18 Gugenheim Greta CEO,DIR TPC RE Finance Tr TRTX AB \$832,779 12/21/18 \$18.56 \$12.08 207.66 26% 1.22 • 0 12/18/18 Deveer R Kipp CEO,DIR ARCC B \$801.000 12/14/18 \$1.602 \$14.84 225.000 29% 6.326 • 11/19/18 Borne Pater BO AVEO Pharm AVEO B \$774.440 12/21/18 \$1.55 \$1.49 20.896.038 2% 187 • +1 11/19/18 Baskett Forest BO AVEO Pharm AVEO B \$774.440 12/21/18 \$1.55 \$1.49 20.896.038 2% 187 • +1 11/19/18 Baskett Forest BO AVEO Pharm AVEO B \$774.440 12/21/18 \$1.55 \$	000		CEO,PR		BHBK	OB	\$862,055	12/17/18						
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11 11/19/18 Sonshil Peter W BO AVEO Pharm AVEO B \$774,440 12/21/18 \$ 1.55 \$1.49 20,896,038 2% 187 +1 11/19/18 Florence Anthony A.Jr BO AVEO Pharm AVEO B \$774,440 12/21/18 \$ 1.55 \$1.49 20,896,038 2% 187 +1 11/19/18 Florence Anthony A.Jr BO AVEO Pharm AVEO B \$774,440 12/21/18 \$ 1.55 \$1.49 20,896,038 2% 187 +1 11/19/18 Growth Equity Ops Iv BO AVEO Pharm AVEO B \$774,440 12/21/18 \$ 1.55 \$1.49 20,896,038 2% 187 +1 11/19/18 Growth Equity Ops Iv BO AVEO Pharm AVEO B \$774,440 12/21/18 \$ 5.5 \$1.49 20,896,038 2% 187 +0.5 12/19/18 Maustin Earl C Jr CEO,DIR Quanta Svs PWR B \$773,600 12/19/18 \$29,72 \$25.02 2.702,058 1% <td>000 +1</td> <td>11/19/18 Sandell Scott D</td> <td>BO</td> <td></td> <td>AVEO</td> <td>В</td> <td>\$774,440</td> <td>12/21/18</td> <td>\$</td> <td>1.55</td> <td>\$1.49</td> <td>20,896,038</td> <td>2%</td> <td>187</td>	0 00 +1	11/19/18 Sandell Scott D	BO		AVEO	В	\$774,440	12/21/18	\$	1.55	\$1.49	20,896,038	2%	187
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+1 11/19/18 Makhzoumi Mohamad BO AVEO Pharm AVEO B \$774,440 12/21/18 \$ 1.55 \$1.49 20,896,038 2% 187 +1 11/19/18 Growth Equity Ops Iv BO AVEO Pharm AVEO B \$774,440 12/21/18 \$ 1.55 \$1.49 20,896,038 2% 187 +0.5 12/19/18 Autin Earl C Jr CEO,DIR Quanta Svs PWR B \$774,9700 12/19/18 \$ 29.40 \$28.25 441,647 6% 4,139 +0.5 12/19/18 Bustin Earl C Jr CEO,DIR Quanta Svs PWR B \$774,000 12/19/18 \$ 29.40 \$28.25 441,647 6% 4,139 +0.5 12/17/18 Brigade Cap Mgt BO Libbey LBY B \$735,800 12/13/18 \$ 5.66 \$4.16 2,410,000 6% 92 0 12/21/18 Kessler Jon CEO,DIR Healthequity HQY OB \$718,685 12/14/18 \$ 41.28 \$55.33 432,410	0 00 +1	11/19/18 Sonsini Peter W	во	AVEO Pharm	AVEO	В	\$774,440	12/21/18	\$	1.55	\$1.49	20,896,038	2%	187
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+0.5 12/19/18 Austin Earl C Jr CEO,DIR Quanta Svs PWR B \$749,700 12/19/18 \$29.40 \$28.25 441,647 6% 4,139 +1 11/14/18 Defranco James DIR,VP DISH Network DISH AB \$742,950 12/19/18 \$29.72 \$25.02 2,702,058 1% 11,701 +0.5 12/17/18 Brigade Cap Mgt BO Libbey LBY B \$735,800 12/13/18 \$5.66 \$4.16 2,410,000 6% 92 0 12/18/18 Kessler Jon CEO,DIR Healthequity HQY OB \$718,685 12/14/18 \$41.28 \$55.33 432,410 4% 3,452 +0 12/21/18 Chang Mike F BO,CEO Alpha & Omega Semi AOSL AB \$710,401 12/21/18 \$9.93 \$9.72 8,438,774 1% 231 +0.5 12/11/18 Ross Jack BO,CEO Synergy CHC SNYR JB* \$663,746 12/1/18 \$19.31 \$19.55 15,205,866 0% 356 +0.5 12/3/18 <td>000 +1</td> <td>11/19/18 Makhzoumi Mohamad</td> <td>во</td> <td>AVEO Pharm</td> <td>AVEO</td> <td>В</td> <td>\$774,440</td> <td>12/21/18</td> <td>\$</td> <td>1.55</td> <td>\$1.49</td> <td>20,896,038</td> <td>2%</td> <td>187</td>	0 00 +1	11/19/18 Makhzoumi Mohamad	во	AVEO Pharm	AVEO	В	\$774,440	12/21/18	\$	1.55	\$1.49	20,896,038	2%	187
+1 11/14/18 Defranco James DIR, VP DISH Network DISH AB \$742,950 12/19/18 \$29.72 \$25.02 2,702,058 1% 11,701 +0.5 12/17/18 Brigade Cap Mgt BO Libbey LBY B \$735,800 12/13/18 \$5.66 \$4.16 2,410,000 6% 92 0 12/18/18 Kessler Jon CEO,DIR Healthequity HQY OB \$718,685 12/14/18 \$41.28 \$\$55.33 432,410 4% 3,452 +0 12/21/18 Chang Mike F BO,CEO Alpha & Omega Semi AOSL AB \$710,401 12/21/18 \$9.93 \$9.72 8,438,774 1% 231 +0.5 12/11/18 Ross Jack BO,CEO Synergy CHC SNYR JB* \$673,769 12/10/18 \$0.55 \$0.14 1,625,034 306% 12 +0.5 12/3/18 Field Joseph M CB,DIR Entercom Comms ETM B \$643,740 12/14/18 \$6.44 \$5.42 9,975,344 1% 773 +0 12/17/18 Romine Kristine DIR Evolus EOLS B<	0 00 +1	11/19/18 Growth Equity Ops lv	во	AVEO Pharm	AVEO	В	\$774,440	12/21/18	\$	1.55	\$1.49	20,896,038	2%	187
+0.5 12/17/18 Brigade Cap Mgt BO Libbey LBY B \$735,800 12/13/18 \$ 5.66 \$4.16 2,410,000 6% 92 0 12/18/18 Kessler Jon CEO,DIR Healthequity HQY OB \$718,685 12/14/18 \$ \$41.28 \$\$55.33 432,410 4% 3,452 +0 12/21/18 Chang Mike F BO,CEO Alpha & Omega Semi AOSL AB \$710,401 12/21/18 \$ 9.93 \$9.72 8,438,774 1% 231 +0 12/21/18 Ross Jack BO,CEO Synergy CHC SNYR JB* \$673,769 12/10/18 \$ 0.55 \$0.14 1,625,034 306% 12 +0 10/30/18 Istar BO Safety Inc & Growth SAFE AB \$663,740 12/14/18 \$ 19.31 \$19.55 15,205,866 0% 366 +0.5 12/17/18 Romine Kristine DIR Evolus EOLS B </td <td>000 +0.5</td> <td>5 12/19/18 Austin Earl C Jr</td> <td>CEO,DIR</td> <td>Quanta Svs</td> <td>PWR</td> <td>В</td> <td>\$749,700</td> <td>12/19/18</td> <td>\$</td> <td>29.40</td> <td>\$28.25</td> <td>441,647</td> <td>6%</td> <td>4,139</td>	000 +0.5	5 12/19/18 Austin Earl C Jr	CEO,DIR	Quanta Svs	PWR	В	\$749,700	12/19/18	\$	29.40	\$28.25	441,647	6%	4,139
0 12/18/18 Kessler Jon CEO,DIR Healthequity HQY OB \$718,685 12/14/18 \$ 41.28 \$55.33 432,410 4% 3,452 +0 12/21/18 Chang Mike F BO,CEO Alpha & Omega Semi AOSL AB \$710,401 12/21/18 \$ 9.93 \$9.72 8,438,774 1% 231 +0.5 12/11/18 Ross Jack BO,CEO Synergy CHC SNYR JB* \$673,769 12/10/18 \$ 19.31 \$119.55 15,205,866 0% 3666 +0 10/30/18 Istar BO Safety Inc & Growth SAFE AB \$662,748 12/21/18 \$ 19.31 \$119.55 15,205,866 0% 3666 +0.5 12/3/18 Field Joseph M CB,DIR Entercom Comms ETM B \$663,740 12/14/18 \$ 19.51 12,041 66% 288 +0 12/17/18 Romine Kristine DIR Evolus EOLS B \$600,000 12/17/18 \$ 10.57 12,041 66% 288 +0 12/18/18 Chan Heng Fai Ambros <bo,dir< td=""> Document Security Sys DSS JB* \$600,000</bo,dir<>	0 00 +1	11/14/18 Defranco James	DIR,VP	DISH Network	DISH	AB	\$742,950	12/19/18	\$	29.72	\$25.02	2,702,058	1%	11,701
+0 12/21/18 Chang Mike F BO,CEO Alpha & Omega Semi AOSL AB \$710,401 12/21/18 \$9.93 \$9.72 8,438,774 1% 231 +0.5 12/11/18 Ross Jack BO,CEO Synergy CHC SNYR JB* \$6673,769 12/10/18 \$0.55 \$0.14 1,625,034 306% 12 +0.5 12/11/18 Ross Jack BO Safety Inc & Growth SAFE AB \$6673,769 12/10/18 \$0.55 \$0.14 1,625,034 306% 12 +0.5 12/31/8 Field Joseph M CB,DIR Entercom Comms ETM B \$663,611 12/17/18 \$19.31 \$19.55 15,205,866 0% 356 +0 12/17/18 Romine Kristine DIR Evolus EOLS B \$603,611 12/17/18 \$12.58 \$10.57 121,041 66% 288 +0 12/18/18 Chan Heng Fai Ambrosc BO,DIR Document Security Sys DSS JB* \$600,000 12/17/18 \$0.98 \$0.75 1,786,531 52% 13 +0.5 10/25/1	000 +0.5	5 12/17/18 Brigade Cap Mgt	во	Libbey	LBY	В	\$735,800	12/13/18	\$	5.66	\$4.16	2,410,000	6%	92
Hole Direct Hypere ording terms Hole Hole <t< td=""><td>0000 0</td><td>12/18/18 Kessler Jon</td><td>CEO,DIR</td><td>Healthequity</td><td>HQY</td><td>OB</td><td>\$718,685</td><td>12/14/18</td><td>\$</td><td>41.28</td><td>\$55.33</td><td>432,410</td><td>4%</td><td>3,452</td></t<>	0000 0	12/18/18 Kessler Jon	CEO,DIR	Healthequity	HQY	OB	\$718,685	12/14/18	\$	41.28	\$55.33	432,410	4%	3,452
Horizon Direct Dift Direct Direct	0 00 +0	12/21/18 Chang Mike F	BO,CEO	Alpha & Omega Semi	AOSL	AB	\$710,401	12/21/18	\$	9.93	\$9.72	8,438,774	1%	231
+0.5 12/3/18 Field Joseph M CB,DIR Entercom Comms ETM B \$643,740 12/14/18 \$6.44 \$5.42 9,975,344 1% 773 +0 12/17/18 Romine Kristine DIR Evolus EOLS B \$600,000 12/17/18 \$12.58 \$10.57 121,041 66% 288 +0 12/17/18 Romine Kristine DIR Evolus EOLS B \$600,000 12/17/18 \$0.98 \$0.75 1,786,531 52% 13 +0 12/18/18 Chan Heng Fai Ambrosc BO,DIR Document Security Sys DSS JB* \$600,000 12/17/18 \$0.98 \$0.75 1,786,531 52% 13 +0.5 10/25/18 Tang Kevin C BO,CEO Odonate Therap ODT B \$586,639 12/18/18 \$14.67 \$12.86 12,822,338 0% 345 +0 12/18/18 Appio Thomas PR Bausch Health BHC B \$584,018 12/14/18 \$22.96 \$18.11 128,922 25% 6,335 0 12/20/18 Neid	0 00 +0.5	5 12/11/18 Ross Jack	BO,CEO	Synergy CHC	SNYR	JB*	\$673,769	12/10/18	\$	0.55	\$0.14	1,625,034	306%	12
+0 12/17/18 Romine Kristine DIR Evolus EOLS B \$603,611 12/17/18 \$12.58 \$10.57 121,041 66% 288 +0 12/18/18 Chan Heng Fai Ambrosc BO,DIR Document Security Sys DSS JB* \$600,000 12/17/18 \$12.58 \$10.57 121,041 66% 288 +0 12/18/18 Chan Heng Fai Ambrosc BO,DIR Document Security Sys DSS JB* \$600,000 12/17/18 \$12.86 \$12.83 \$10.57 121,041 66% 288 +0.5 10/25/18 Tang Kevin C BO,CEO Odonate Therap ODT B \$586,639 12/18/18 \$14.67 \$12.86 12,822,338 0% 345 +0 12/18/18 Appio Thomas PR Bausch Health BHC B \$584,018 12/14/18 \$22.96 \$18.11 128,922 25% 6,335 0 12/20/18 Neidorff Michael F CB,CEO Centene CNC OB \$570,200 12/18/18 \$57.02 \$112.51 3,699,611 0% 23,105 +1 11/28/18 Mario Ernest DIR Celgene CE	000 +0	10/30/18 Istar	во	Safety Inc & Growth	SAFE	AB	\$652,748	12/21/18	\$	19.31	\$19.55	15,205,866	0%	356
+0 12/18/18 Chan Heng Fai Ambrosc BO, DIR Document Security Sys DSs JB* \$600,000 12/17/18 \$0.98 \$0.75 1,786,531 52% 13 +0.5 10/25/18 Tang Kevin C BO, CEO Odonate Therap ODT B \$586,639 12/18/18 \$14.67 \$12.86 12,822,338 0% 345 +0 12/18/18 Appio Thomas PR Bausch Health BHC B \$584,018 12/14/18 \$22.96 \$18.11 128,922 25% 6,335 0 12/20/18 Neidorff Michael F CB,CEO Centene CNC OB \$570,200 12/18/18 \$57.02 \$112.51 3,699,611 0% 23,105 +1 11/28/18 Mario Ernest DIR Celgene CELG OB \$507,873 12/19/18 \$59.06 \$60.92 63,013 16% 42,598 +1 11/6/18 Duchossois Richard L DIR Churchill Downs CHDN B \$504,313 12/17/18 \$258.62 \$233.73 193,500 1% 3,172	000 +0.5	5 12/3/18 Field Joseph M	CB,DIR	Entercom Comms	ETM	В	\$643,740	12/14/18	\$	6.44	\$5.42	9,975,344	1%	773
+0.5 10/25/18 Tang Kevin C BO,CEO Odonate Therap ODT B \$586,639 12/18/18 \$ 14.67 \$12.86 12,822,338 0% 345 +0 12/18/18 Appio Thomas PR Bausch Health BHC B \$584,018 12/14/18 \$ 22.96 \$18.11 12,822,338 0% 23,105 0 12/20/18 Neidorff Michael F CB,CEO Centene CNC OB \$570,200 12/18/18 \$ 57.02 \$112.51 3,699,611 0% 23,105 +1 11/28/18 Mario Ernest DIR Celgene CELG OB \$507,873 12/19/18 \$ 59.06 \$60.92 63,013 16% 42,598 +1 11/6/18 Duchossois Richard L DIR Churchill Downs CHDN B \$504,313 12/17/18 \$ 258.62 \$233.73 193,500 1% 3,172	000 +0	12/17/18 Romine Kristine	DIR	Evolus	EOLS	В	\$603,611	12/17/18	\$	12.58	\$10.57	121,041	66%	288
+0 12/18/18 Appio Thomas PR Bausch Health BHC B \$584,018 12/14/18 \$ 22.96 \$18.11 128,922 25% 6,335 0 12/20/18 Neidorff Michael F CB,CEO Centene CNC OB \$570,200 12/18/18 \$ 57.02 \$112.51 3,699,611 0% 23,105 +1 11/28/18 Mario Ernest DIR Celgene CELG OB \$507,873 12/19/18 \$ 59.06 \$60.92 63,013 16% 42,598 +1 11/6/18 Duchossois Richard L DIR Churchill Downs CHDN B \$504,313 12/17/18 \$ 258.62 \$233.73 193,500 1% 3,172	000 +0	12/18/18 Chan Heng Fai Ambros	eBO,DIR	Document Security Sys	DSS	JB*	\$600,000	12/17/18	\$	0.98	\$0.75	1,786,531	52%	13
O 12/20/18 Neidorff Michael F CB,CEO Centene CNC OB \$570,200 12/18/18 \$ 57.02 \$112.51 3,699,611 0% 23,105 • • • • • • • • • • • • • • • • • • •	000 +0.5	5 10/25/18 Tang Kevin C	BO,CEO	Odonate Therap	ODT	В	\$586,639	12/18/18	\$	14.67	\$12.86	12,822,338	0%	345
Image: Stress of the stres stress of the stress of the stress of the stress o	000 +0	12/18/18 Appio Thomas	PR	Bausch Health	BHC	В	\$584,018	12/14/18	\$	22.96	\$18.11	128,922	25%	6,335
+1 11/6/18 Duchossois Richard L DIR Churchill Downs CHDN B \$504,313 12/17/18 \$ 258.62 \$233.73 193,500 1% 3,172	000 0	12/20/18 Neidorff Michael F	CB,CEO	Centene	CNC	OB	\$570,200	12/18/18	\$	57.02	\$112.51	3,699,611	0%	23,105
	0 00 +1	11/28/18 Mario Ernest	DIR	Celgene	CELG	OB	\$507,873	12/19/18	\$	59.06	\$60.92	63,013	16%	42,598
+2 12/18/18 Herlitz Grant PR Howard Hughes HHC B \$500,394 12/17/18 \$ 98.29 \$92.16 93,275 6% 3,966	0 00 +1	11/6/18 Duchossois Richard L	DIR	Churchill Downs	CHDN	В	\$504,313	12/17/18	\$ 2	258.62	\$233.73	193,500	1%	3,172
	••• +2	12/18/18 Herlitz Grant	PR	Howard Hughes	HHC	В	\$500,394	12/17/18	\$	98.29	\$92.16	93,275	6%	3,966

LARGEST INDIVIDUAL SALES (1-50)

Includes Transaction Types S, AS, JS*. Top 100 by dollar value, filed at the SEC in the past week. Note: If Insider Rating Date > 3 Months Old or Insider Rating is Bullish, Recent Selling Activity is Considered Insignificant. Generated with Special Screens tool at InsiderInsights.com using <u>Pre-Programmed Screen</u>: "Large Individual Sales (Week) + All Ratings".

Total Lasat Aus. Price Rooth Rooth <th< th=""><th></th><th></th><th>with special screens tool at it</th><th>isiacimisi</th><th><u>grits.com using <u>ric r</u></u></th><th>rogramm</th><th></th><th><u>en</u>. Eurge me</th><th>arriadat 5</th><th></th><th>.<u>,</u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</th><th></th><th></th><th></th></th<>			with special screens tool at it	isiacimisi	<u>grits.com using <u>ric r</u></u>	rogramm		<u>en</u> . Eurge me	arriadat 5		. <u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Billing Data Price Price Price Price Hodings Dors Immit 000 0 1122318 Nation Am C. BO Wirrart WHT S. \$113,4220.98 121818 8 867.53 526.98 47.1 253.138 000 0 1122118 Nation Am C. BO Wirrart WHT S \$113,420.996 121818 8 887.53 269.992.44 -142.233.138 000 0 107718 Brond Manc CECDDA American Mark 8 40.072.023 122118 3 124.991.85 1.904.9 59.996.963.97 0 1227018 Lindaw Mark CECDDA American Mark PMC 5 59.997.940 121116 2.249.978.41 1.914.9 1.914.90 1.914.91 Autoon 1.920.91 1.914.91 1.922.91 1.914.90 1.922.91 1.914.91 1.914.91 1.914.91 1.914.91 1.914.91 1.914.91 1.914.91 1.914.91 1.914.91 1.914.91								Total	Latest	Ave.			Delta	Mkt
Bind Date Finize Holdings Out Finize Holdings Design E35, 155 Constrained Constrained <thconstrained< th=""> Cons</thconstrained<>	Insider		Rating				Trans			Purch	Recent	Subsequent		
O 11/2018 Values Lun C BO Valuest VMIT S \$\$133.428.085 12/118 \$\$123.13 12/158 12/158 12/15 12/158<	Rating*		Date Insider Name	Title(s)	Company	Ticker	Type(s)*	Value	Date	Price	Price	Holdings	Own	
0 11/22/18 Values Skobson BO/R Walment WHT 9 11/32/08 Volt 18 22/3 187/13 128/99/08/4 11/6 28/30 0 0 10/21/18 Beninf Munc CELO IS abeadurescon CRM AS 440.572.023 12/211 5 20.5 0.6 6.60.207 0 12/2018 Linding Carl H III CELO IR Alphabet GOOG IA S 30.265.831 12/1118 8 2.612.001 2.612.001 2.612.001 2.612.001 2.612.001 2.612.001 2.612.001 2.612.001 2.612.001 2.612.001 2.612.001 2.612.001 2.612.001 2.612.001 2.612.001 2.612.001 8.613.84 8.68.49% 6.86.207 2.612.001 8.613.84 6.86.207 8.603.85 1.602.001 8.613.84 0.602.001 8.603.94 6.82.87 8.62.86 1.602.001 8.612.001 1.622.0178 1.63.84 8.662.001 8.612.001 1.622.0178 1.63.84 8.662.001 8.612.001 1.622.0178 1.62.0178 1.62.0178 1.62.0178 1.62.0178 1.62.0178	000 -0)	11/23/18 Walton Alice L	во	Walmart	WMT	S	\$113,429,056	12/19/18	\$ 92.53	\$87.13	125,990,924	-1%	253,135
O -0 10/11/18 Bendrif Marc CBE(ED) selestoroscom CMI AS 5413/223 12/21/18 513/21 512/21 65/773/34 015 61/201 0 12/2116 Bunder Ginlill CEODIT Aphabet GCOG AS 510/414 850 10/318	000 -0)	11/23/18 Walton Jim C	во	Walmart	WMT	S	\$113,429,056	12/19/18	\$ 92.53	\$87.13	125,990,924	-1%	253,135
O 0 101/1718 Bendrig Mark CECD Ashedrocanom CRM A 8 40.072.023 12/116 8 12.021 05/12.01	000 -0)	11/23/18 Walton S Robson	BO,DIR	Walmart	WMT	S	\$113,429,056	12/19/18	\$ 92.53	\$87.13	125,990,924	-1%	253,135
O 0 122/118 Phale Sundar CEO.DIF. Applicable COOL AS \$1141.4985 219/116 5 1014 591.12 505 695.22 260.27 -105 716<	000 -0)	10/17/18 Benioff Marc	CB,CEO	salesforcecom	CRM	AS	\$40,572,623	12/21/18	\$ 133.28	\$122.91		0%	94,026
O 1 1 20201F Lunder Carl HIII CDCOR Aver Finit AFG 5 59.988,531 1271/16 5 20.9457 -4% 7.876 0 122116 Holling Marc CEO.DR. S. Green Rity SLG 5 59.257.826 12/116 5 53.227.80 51.124.00 -8.322.116 -1% 5.322.116 -1% 5.322.116 -1% 5.322.116 -1% 3.885 0 1 12/1178 Marcia Morningtur MORN S.77.66.680 12/1178 5 13.03 523.37 864.825 -0% 681.1 0 11/12/16 Marcia MAR NTM S 55.650.00 12/1178 5 12/1178 5 10.20.01 22.00.02 22.01.01 11.20.01 11.20.00 12.20.01 22.50 0.11.1111 11.1111 10.1111 10.1111 10.1111 10.1111 10.1111 10.1111 10.1111 10.1111 10.1111 10.1111 10.1111 10.11111 10.11111 <	000 -0)	12/6/18 Pichai Sundar	CEO.DIR	Alphabet	GOOG	AS				\$991.25	505	-95%	685.287
0 1 9 1 2 2 2 3 9 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 2 1 1 3	000 0)					S							
O 1 12/11/18 Highed Sandar BOO Sincerem Filty SIG 5 57/280.050 12/2018 5 15/21 4 15/21 4 15/21 15/16 1 3.880 0 -0 11/19/16 Marnuedo Suegh D DO, CB Mormingstar MORN AS 57/66.669 12/2018 5 11/202 5 11/202 5 11/202 5 11/202 5 11/202 11/202 11/202 11/202 11/202 11/202 11/202 11/202 11/202 11/202 11/202 20 11/211 11/201 11/202 11/202 20 11/2111 11/211 12/211 11/211 11/211 11/211 11/211 11/211 11/211 11/211	000 0													
-0 12/3/18 Bigur Sandar BO Cracker Barrel CBRL S \$7/28.080 12/18/18 \$11.24 \$11.867 4.322.218 .1% 3.888 0 0 11/318 Gendal Marringstar MORN A.9 \$7/246.080 12/2018 \$ 30.48 \$10.800 \$10.200 \$10.400 \$10.400 \$10.400 \$10.400 \$10.400 \$10.200 \$12.400 \$10.800 \$12.400 \$10.200 \$12.200 \$12.200 \$14.800 \$16.200 \$14.800 \$16.200 \$14.800 \$16.200 \$14.800 \$16.200 \$14.800 \$16.200 \$14.800 \$12.200 \$14.800 \$16.800 \$14.800 \$16.800 \$14.800 \$16.800 \$14.800 \$16.800 \$14.900 \$10.111.111.111000000000000000000000000					, , , , , , , , , , , , , , , , , , ,									
O 11/19/18 Manualau Joseph D BO,CB Murningstar MORN AS \$7.054.869 12/2018 \$ 113.69 \$106.73 68.038.544 0% 4.553 O 10/13/18 Darsey Jack BO,CB Square SQ AS 52.200/21/21918 \$ 0.11 52.51 - AI 21.713 O 11/12/18 Darsey Jack BO,CB Square SQ 57.69 57.69 57.69 65.134.40 0% 20.91 O 11/12/18 Kallogg W K Fdh T BO ServiceNW NOW S 55.650.050 12/1718 817.34 810.200 225 40.94 O 11/14/18 Uwr Singheine D DR Whare VMW S 55.650.050 12/14/18 13.600.577 1% 42.40 O 11/14/18 Wm Singheine D DR Nation N MTRX AS 54.660.142 12/18/18 4.644 54.515 14.065.577 1% 42.40 O 11/14/18 Wm Singheine T DR RealPage RP AS 54.660.132 <td>000</td> <td></td>	000													
0 12/13/18 Gendel Jeffrey L DR Patrick Ind PATK S 58/246,853 12/17/18 \$ 0.03 \$ 28.37 884.825 20% 681 0 11/16/16 Joelagg M K Fdn T BO,CB Stature SQ AS 58/260.122/01/18 \$ 51/11 55/21 AS 52/24 55/24 65/11 56/21 55/21 <t< td=""><td>000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	000													
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0 11/26/18 Kellogg W K Fdh Tr BO Kellogg K AS \$57.68.520 12/20/18 \$ 57.64 65,131.440 0% 20.002 0 11/14/18 Luxdy Frederic B DIR ServeeNow NUW AS \$55,653.037 12/11/18 \$1102.00 12/22/12 29.047 0 12/13/18 Brown Mehael W DIR VMmare VMW \$55,550,902 12/14/18 \$160.00 \$14.49 160.23 -67.74 65.43 0 11/14/18 Wrin Stephen T BO.CB RealPage RP AS \$4.664.142 12/18/18 \$16.64 \$45.15 14.056.587 -1% 4.240 0 -0 12/17/18 Stephenberg Meagen SO Monpolb MDB \$4.456.038 12/17/18 \$160.68 \$164.61 11.99.587 -7% 3.91.04 19% 3.24 0 11/16/18 Winghigh Dawn G COO,DY P Clorx O CLX AS 3.406.032 12/118 \$163.68 \$164.61 118.98 \$17.65.04 9.99.0	000				-									
O 11/14/18 Luddy Finderic B DR ServiceNow NOW AS \$5,650.007 12/17/18 \$ 173.94 \$162.00 112,600 -22% 29,047 O -0 12/13/18 Grown Michael W DR VMware VMW S \$5,600.007 12/14/18 \$160.00 \$144.99 16.923 -67% 69,430 O -0 12/13/18 Grown Michael W DR Nutarinx NTMX AS \$5,650.962 12/19/18 \$4,664 445.15 14.054,567 -1% 4,240 O 0 11/14/18 Steren Cap BO RealPage RP AS \$4,664,412 12/19/18 \$4,664 455.15 14.054,567 -1% 4,240 O 10/17/18 Emembry Robert CEO,DIR Coupa Software COUP S,384,50.08 12/19/18 \$4.664 451.51 14.054,567 -1% 3,244 O 10/11/16/18 Wiloupleby Dwm C COO,DR Corx Co CLX AS \$4.067,964 12/11/18 51.812.9 \$16.92 \$16.92	000				•									
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O 12/18/18 Attanasio Louis J O Nutanix NTNX AS \$5,550,952 12/19/18 \$1,434 \$36,47 . All 6,533 O 0 111/14/18 Sernel Cap BO RealPage RP AS \$4,664,142 12/18/18 \$4,644 \$45,15 14,004,687 1% 4,240 O 0 111/14/18 Sernel Cap BO RealPage RP AS \$4,664,142 12/18/18 \$46,645 \$45,15 14,004,687 1% 4,240 O 12/01/18 Uopi Michelangelo DR RealPage CUP SAS \$4,223,869 12/11/18 \$16,168 \$15,15 18,868 58% 19,724 O 101/14/18 Yabuki Jaffeny W CEO,DIR Guora CUD S,38,890,321 12/20/18 \$16,13 \$12,497 12% 12% 17,868 570,92 277,214 15% 24,80 O 111/14/18 Yabuki Jaffeny W CEO,DIR Fisary FISO AS \$3,869,331 12/19/18 \$110	000													
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O 12/6/18 Eisenberg Meagen SO Mongodb MDB S \$4.458,038 12/19/18 \$ 88.06 \$72.95 31.352 -62% 3.910 0 12/7/18 Bernshteyn Robert CEO,DR Coupa Software COUP S.AS \$4.266,0326 12/21/18 \$ 61.13 \$54.57 293.146 -19% 3.24 0 11/16/18 Miopy Dawn C COO,VP Clonx Co CLX AS \$4.4067.964 21/17/18 \$ 61.13 \$54.57 293.146 -19% 3.24 0 11/16/18 Miopy Dawn C COO,VP Clonx Co CLX AS \$3.881.1210/11718 \$16.08 \$14.51 15.86 7.398 \$12.94 17.45 0 10/19/18 Clony Advints Acorda Therap Acorda S3.385.27 12/118 \$12.94 1.755 22.271 11.650.000 -20% 1.962 -01 22/178 \$60.29 11.660.200 -21% 1.962 -21% 2.178 -01	000		•		*									
O 12/71/8 Bernshteyn Robert CEO,DIR Coupa Software COUP S.AS \$4,223,682 12/17/18 \$6.1.3 \$54.57 293,146 -19% 3,244 0 -0 11/16/18 Willoughty Dawn C COO,VP Clorx Co CLX AS \$4,007,964 12/17/18 \$16.08 \$154.51 11,566 -58% 19,724 0 11/16/18 Volpi Michelangelo DIR Zuora ZUO \$3,817,1756 12/20/18 \$16.08 \$154.51 11,649 -9% 1,745 0 11/16/18 Sopia Cap Mgt BO Acorda Therap ACOR \$3,3665.33 12/19/18 \$16.13 \$51.294 17,266,149 -1% 615 0 12/21/18 Statketbl J DIR Docusign DOCU AS \$3,665.33 12/19/18 \$6.79 \$80.29 116,982 30% 21,78 0 12/13/18 Statketbl J DiR Dicusign DOCU AS \$3,309,827 12/17/18 \$60.01 <td< td=""><td>000</td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	000				•									
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O -0 12/10/18 Volpi Michelangelo DIR Zuora ZUO S \$3,811,756 12/20/18 \$18.29 \$16.08 1,649 -99% 1,745 0 11/14/18 Yabuki Jeffery W CEO,DIR Fiserv FiSV AS \$3,869,032 12/19/18 \$7.092 277.214 -15% 28,261 0 11/14/18 Soppia Cap Mgt BO Acorda Therap ACOR \$3,869,032 12/19/18 \$16.13 \$12.94 17,265,149 -1% 616 0 10/19/18 Krach Kelth J DIR Vonage VG AS \$3,667,233 12/118 \$4.10 \$37.99 14,895,058 -1% 6,278 0 12/13/18 Stent Rohald DIR Five Below Five Below Five \$3,074,498 12/17/18 \$4.001 \$52.551 429,153 -10% 21/17 0 11/19/18 Janes Koan BO,CEO Goosehead Insurance GSHD AS \$2.575,189 12/18/18 \$2.722 <td< td=""><td></td><td>)</td><td>12/7/18 Bernshteyn Robert</td><td>CEO,DIR</td><td>Coupa Software</td><td>COUP</td><td>S,AS</td><td>\$4,223,682</td><td>12/21/18</td><td>\$ 61.13</td><td>\$54.57</td><td>293,146</td><td>-19%</td><td>3,244</td></td<>)	12/7/18 Bernshteyn Robert	CEO,DIR	Coupa Software	COUP	S,AS	\$4,223,682	12/21/18	\$ 61.13	\$54.57	293,146	-19%	3,244
0 11/14/18 Yabuki Jeffery W CEO,DIR Fiser FISV AS \$3,699,032 12/19/18 \$73,98 \$70.92 277,214 -15% 28,260 0 -1 10/1/18 Scopia Cap Mgt BO Acorda Thrapp ACOR \$ \$3,689,812 12/19/18 \$ 16.13 \$12.94 17,265,149 -1% 615 0 10/19/18 Citron Jeffrey A DIR Vonage VG AS \$3,3687,726 12/11/18 \$ 16,50,000 -20% 1,926 -3% 2,178 0 12/13/18 Popovits Kimberly J CEO,DIR Fine Below FIVE S \$3,309,227 12/18/18 \$ 66.79 \$60.29 116,982 -30% 21/178 0 12/13/18 Sargent Ronald DIR Five Below FIVE S \$3,309,227 12/18/18 \$6.6.79 \$60.09 \$11/19/18 \$24,55 \$100/118 \$27,57 \$100/118 \$22,57 \$100/118 \$22,57 \$100/118 \$27,22 \$2)	11/16/18 Willoughby Dawn C	COO,VP	Clorox Co	CLX	AS	\$4,067,964	12/17/18	\$ 160.68	\$154.51	18,586	-58%	19,724
Image: State of the s	000 -0)	12/10/18 Volpi Michelangelo	DIR	Zuora	ZUO	S	\$3,811,756	12/20/18	\$ 18.29	\$16.08	1,649	-99%	1,745
O O	000 0)	11/14/18 Yabuki Jeffery W	CEO,DIR	Fiserv	FISV	AS	\$3,699,032	12/19/18	\$ 73.98	\$70.92	277,214	-15%	28,260
O O	●00 -1	1	10/4/18 Scopia Cap Mgt	BO	Acorda Therap	ACOR	S	\$3,688,812	12/20/18	\$ 16.13	\$12.94	17,265,149	-1%	615
O 12/13/18 Popovits Kimberly J CEO,DIR Genomic Health GHDX AS \$3,336,527 12/18/18 \$ 66.79 \$ 60.29 116,962 -30% 2,178 O -0 12/18/18 Sargent Ronald DIR Five Below FiVE S \$3,070,498 12/17/18 \$ 97.60 \$90.38 143,674 -18% 5,040 O -0 11/8/18 Benzya O Square SQ AS \$3,000,287 12/17/18 \$ 97.60 \$90.38 143,674 -18% 5,244 4.21 -2% 860 O 11/19/18 Jones Mark Evan BO,CEO Goosehead Insurance GSHD AS \$2,575,189 12/18/18 \$ 27.22 \$23.70 5,244,843 -2% 860 O 11/19/18 Jones Robyn Mary BO,DIR Goosehead Insurance GSHD AS \$2,575,189 12/18/18 \$ 20.70 5,244,843 -2% 860 O 12/19/18 Ensiter Kurt Von DIR Crispr Therap AG CRSP<	000 -0)	10/19/18 Citron Jeffrey A	DIR	Vonage	VG	AS	\$3,665,333	12/19/18	\$ 9.16	\$8.19	1,650,000	-20%	1,962
O 12/18/18 Sargent Ronald DIR Five Below FIVE S 3,074,498 12/17/18 \$ 90.08 141,674 -10.01 21.713 O 0 11/19/18 Henry Alyssa O Square SQ AS \$3,000,287 12/17/18 \$ 60.01 \$52.51 429,153 -10% 21,713 O 11/19/18 Henry Alyssa O Square SQ AS \$3,000,287 12/17/18 \$ 60.01 \$52.51 429,153 -10% 21,713 O 10/1/18 Desca Michael Lawrence DIR TPIC Composites TPIC AS \$2,675,189 12/18/18 \$27.22 \$23.70 5,244,843 -2% 860 O 11/19/18 Jones Robyn Mary E BO,DIR Goosehead Insurance GSHD AS \$2,675,189 12/18/18 \$27.22 \$23.70 5,244,843 -2% 860 O 12/19/18 Barker Kurt Von DIR Crispit Therap AG CRSP S \$2,176,898 1	000 -0)	12/21/18 Krach Keith J	DIR	Docusign	DOCU	AS	\$3,547,726	12/21/18	\$ 41.10	\$37.99	14,895,058	-1%	6,278
O 1	000 0)	12/13/18 Popovits Kimberly J	CEO,DIR	Genomic Health	GHDX	AS	\$3,339,527	12/18/18	\$ 66.79	\$60.29	116,982	-30%	2,178
O 101	000 -0)	12/18/18 Sargent Ronald	DIR	Five Below	FIVE	S	\$3,074,498	12/17/18	\$ 97.60	\$90.38	143,674	-18%	5,040
O 1119/18 Justa 1210/18 1210/17 1210/18 1210/17 1210/1	000 -0)	11/9/18 Henry Alyssa	0	Square	SQ	AS	\$3,000,287	12/17/18	\$ 60.01	\$52.51	429,153	-10%	21,713
O 11/19/18 Jones Mark Evan BO,CEO Goosehead Insurance GSHD AS \$2,575,189 12/18/18 \$27.22 \$23.70 5,244,843 -2% 860 0 11/19/18 Mark & Robyn Jones Desc BO Goosehead Insurance GSHD AS \$2,575,189 12/18/18 \$27.22 \$23.70 5,244,843 -2% 860 0 11/19/18 Jones Robyn Mary E BO,DIR Goosehead Insurance GSHD AS \$2,575,189 12/18/18 \$27.22 \$23.70 5,244,843 -2% 860 0 12/17/18 Apte Manoj O Zscaler ZS AS \$2,575,189 12/18/18 \$27.22 \$23.70 5,244,843 -2% 860 0 12/17/18 Apte Manoj O Zscaler ZS AS \$2,017,089 12/18/18 \$29.85 \$22.73 1,164,268 -6% 1,180 0 12/26/18 Balligan Brian CEO,DIR HubSpot HUBS AS \$1,845,513 12/18/18 \$115.20 664,975 -2% 4,520	000 -0)	10/31/18 Derosa Michael Lawrence	DIR	TPI Composites	TPIC	AS	\$2,832,210	12/19/18	\$ 24.45	\$23.50	6,597,233	-2%	811
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	- · · ·)	12/20/18 Hunter Jesse N	VP	Centene	CNC	AS	\$1,212,600	12/18/18	\$ 121.26	\$112.51	226,382	-4%	23,105
OOO 0 11/14/18 Ronald N Tutor Separate BO Tutor Perini TPC S \$1,209,750 12/19/18 \$ 16.13 \$15.39 5,536,601 -1% 770	000 0)	11/14/18 Tutor Ronald N	BO,CB	Tutor Perini	TPC	S	\$1,209,750	12/19/18	\$ 16.13	\$15.39	5,536,601	-1%	770
	000 0)	11/14/18 Ronald N Tutor Separate	во	Tutor Perini	TPC	S	\$1,209,750	12/19/18	\$ 16.13	\$15.39	5,536,601	-1%	770

See last page for the Key to Ratings, Titles & Transaction Type codes.



LARGEST INDIVIDUAL SALES (Continued 51-100)

Includes Transaction Types S, AS, JS*. Top 100 by dollar value, filed at the SEC in the past week.

Note: If Insider Rating Date > 3 Months Old or Insider Rating is Bullish, Recent Selling Activity is Considered Insignificant.

Generated with Special Screens tool at InsiderInsights.com using Pre-Programmed Screen: "Large Individual Sales (Week) + All Ratings".

							Total	Latest	Ave.			Delta	Mkt
Inside	er	Rating				Trans	Purch	Trans	Purch	Recent	Subsequent	%	Сар
Rating	J*	Date Insider Name	Title(s)	Company	Ticker	Type(s)*	Value	Date	Price	Price	Holdings	Own	(mm)
000	-0	12/6/18 Fernandez Gomez Luciar	n PR	Workday	WDAY	AS	\$1,143,077	12/17/18	\$ 155.65	\$144.93	165,271	-4%	31,595
000	-0	11/1/18 Yeaman Kevin J	CEO,DIR	Dolby LABS	DLB	AS	\$1,136,674	12/18/18	\$ 64.58	\$59.52	38,567	-31%	6,146
000	0	12/21/18 Emster Kurt Von	DIR	CymaBay Therap	CBAY	S	\$1,123,589	12/18/18	\$ 7.89	\$6.54	131,036	-52%	389
000	-0	12/20/18 Porges David L	DIR	EQGP LP	EQGP	S	\$1,117,383	12/18/18	\$ 19.86	\$19.93	-	All	6,028
000	-0	11/21/18 Miller Adam L	CEO,DIR	Cornerstone OnD	CSOD	AS	\$1,094,742	12/19/18	\$ 52.13	\$46.75	3,947,925	-1%	2,740
000	-0	9/21/18 Corson Bradley W	VP	Exxon Mobil	XOM	S	\$1,092,527	12/19/18	\$ 72.84	\$68.12	223,461	-6%	288,407
000	-0	12/12/18 Kourey Michael R	DIR	Okta	OKTA	AS	\$1,089,148	12/17/18	\$ 62.24	\$54.59	-	All	6,029
000	-0	12/6/18 Dermetzis Petros	0	Workday	WDAY	AS	\$1,054,488	12/17/18	\$ 156.75	\$144.93	171,559	-4%	31,595
000	0	11/6/18 Schlein Ted	DIR	Chegg	CHGG	S	\$1,002,190	12/13/18	\$ 28.84	\$25.89	178,540	-16%	2,975
000	-0	12/18/18 Haythornthwaite Richard	DIR	Mastercard	MA	AS	\$959,993	12/17/18	\$ 192.00	\$175.19	35,983	-12%	180,935
000	0	11/9/18 Jones Jerry C	LO	Liveramp	RAMP	S	\$943,379	12/19/18	\$ 43.56	\$38.78	216,086	-9%	3,065
000	0	10/1/18 Yang Patrick Y	DIR	Codexis	CDXS	AS	\$925,950	12/20/18	\$ 18.52	\$15.93	53,817	-48%	861
000	-0	11/9/18 Zhang Jack Y	BO,CEO	Amphastar Pharm	AMPH	S	\$892,309	12/14/18	\$ 20.48	\$19.64	2,072,317	-2%	905
000	-0	11/14/18 Briggs Jeffrey S	COO,PR	Green Plains	GPRE	S	\$833,595	12/20/18	\$ 13.23	\$12.49	210,006	-23%	517
000	-0	12/17/18 Hawley Roger	DIR	Zogenix	ZGNX	S	\$826,910	12/14/18	\$ 41.35	\$34.16	70,575	-22%	1,434
000	0	12/11/18 Donnelly Michael Joseph	COO,VP	Kroger Co	KR	S	\$811,040	12/13/18	\$ 29.60	\$27.40	287,726	-9%	21,858
000	-0	11/26/18 Koch C James	BO,CB	Boston Beer	SAM	AS	\$800,004	12/14/18	\$ 275.01	\$246.98	100,997	-3%	2,870
000	-0	10/16/18 Faddis Jonathan	GC,VP	Veeva Sys	VEEV	AS	\$794,153	12/17/18	\$ 88.24	\$80.99	1,073	-89%	11,768
000	-0	12/3/18 Ryu Marcus	CEO,DIR	Guidewire Software	GWRE	S	\$788,572	12/18/18	\$ 81.17	\$75.38	10,255	-49%	6,108
000	-0	11/13/18 Margulis Heidi S	0	Humana	HUM	S		12/18/18		\$274.64	6,476	-29%	37,677
000	-0	10/16/18 Sekhri Paul J	DIR	Veeva Sys	VEEV	AS		12/18/18		\$80.99	17,041	-35%	11,768
000	-0	11/26/18 Mcclain Mark D	CEO.DIR	Sailpoint Tech	SAIL	AS		12/17/18		\$21.38	1,563,714	-2%	1,877
000		12/14/18 Lopker Pamela M	BO,PR	QAD	QADA	JS*		12/21/18		\$40.25	25,024,475	0%	758
000	-0	12/4/18 Mills Kenneth T		Regenxbio	RGNX	AS		12/17/18		\$39.37	216,000	-6%	1,411
000		11/14/18 Trom Jeff D	BO,CTO,	•	WK	AS		12/20/18		\$32.39	317,735	-6%	1,420
000		12/19/18 Viscuso Michael	0	Carbon Black	CBLK	AS		12/17/18		\$12.27	1,006,132	-5%	833
000	0	11/28/18 Chrzan Oliver lan	сто	CarGurus	CARG	AS		12/19/18		\$30.81	1,872,906	-1%	3,392
000	-0	12/19/18 Braverman Alan N	GC,VP	Walt Disney Co	DIS	AS		12/20/18		\$104.22	221,898	-3%	155,149
000	-	12/20/18 Dove Timothy L		Pioneer Natural Res	PXD	S		12/19/18		\$125.08	274,101	-2%	21,321
000		11/21/18 Herbert Timothy P			INSP	AS		12/18/18		\$37.50	259,624	-5%	858
000	-0	10/2/18 Cho Alex	PR	HP	HPQ	S		12/14/18		\$19.65		All	30,526
000	-0	11/5/18 Price Robert E	BO.DIR	PriceSmart	PSMT	AS		12/17/18		\$56.09	1,588,357	-1%	1,709
000	0	12/21/18 Lewnes Ann	SO,VP	Adobe	ADBE	AS		12/19/18		\$208.80	50,140	-5%	101,922
000	-	12/18/18 Balo Andrew K	VP	DexCom	DXCM	AS		12/14/18		\$108.32	73,105	-6%	9,624
000		12/18/18 Lipps Randall A	CB,CEO	Omnicell	OMCL	AS		12/18/18		\$58.42	155,543	-6%	2,315
000		11/13/18 Fleming William Kevin	PR	Humana	HUM	S		12/18/18		\$274.64	7,323	-22%	37,677
000	0	12/11/18 Schlotman J Michael	VP	Kroger Co	KR	s		12/18/18		\$274.04	282,452	-7%	21,858
000	-	12/12/18 Horowitz Benjamin A	DIR	Okta	OKTA	AS		12/17/18		\$54.59	1,703,351	-1%	6,029
000		11/20/18 Boal Steven R	CB,DIR	Quotient Tech	QUOT	AS		12/17/18		\$10.39	3,423,628	-1%	989
000	-0	11/8/18 Missan Andy	GC,VP	Fitbit	FIT	AS		12/18/18		\$4.80	78,719	-58%	1,193
000		11/13/18 Huval Timothy S	HR	Humana	HUM	A3 S		12/18/18		\$274.64	8,831	-17%	37,677
000		12/18/18 Tans Gillian	CEO,PR		BKNG						5,539		75,674
000		12/18/18 Tans Gillian 11/20/18 Macri Edmond	SO	Booking	W	AS S		12/17/18	\$ 1,797 \$ 101 19			-5% -45%	
000				Wayfair						\$82.14	6,338		7,421
000		11/20/18 Mulliken John Champlin		Wayfair Moreury Svo	W	S		12/17/18		\$82.14	12,150	-29%	7,421
000		11/21/18 Aslett Mark		Mercury Sys	MRCY	AS		12/18/18		\$43.54 \$40.20	382,440	-3%	2,107
	0	12/7/18 Seibel Donald Arthur Jr		ACNB	ACNB	S		12/20/18		\$40.20	17,706	-42%	283
•••		12/20/18 Norton David K	HR,VP	Peoples United Finl	PBCT	S		12/19/18		\$14.08	99,995	-24%	5,313
000		12/19/18 Smith Mike C		Stitch Fix	SFIX	AS		12/17/18		\$16.87	47,761	-34%	1,679
000	0	11/20/18 Oblak Steve	0	Wayfair	W	S			\$ 101.03	\$82.14	121,357	-4%	7,421
000	0	11/15/18 Ali Mohamad	UEU,DIR	Carbonite	CARB	S,AS	\$470,206	12/19/18	ъ 26.29	\$24.10	1,038,952	-2%	833



LARGEST FORM 3 FILINGS

Includes Transaction Type 3. Top 50 by Subsequent Holdings, filed at the SEC in the past week. Note: If Insider Rating Date > 3 Months Old, Recent Form 3 Activity is Considered Insignificant. Generated with Special Screens tool at InsiderInsights.com using <u>Pre-Programmed Screen</u>: "Largest Form 3 Filings (Week) + All Ratings"

				-	<u> </u>		-	-				
								Latest			Mkt	10-Day
Inside	r	Rating					Trans	Trans	Recent	Subsequent	Сар	Ave Vol
Rating	*	Date	Insider Name	Title	Company	Ticker	Type(s)*	Date	Price	Holdings	(mm)	(m)
000	-0	8/10/16	Spruce House Partnership	BO	XPO Logistics	XPO	3	12/19/18	\$52.06	12,750,000	6,609	12,230
	NR	NR	Stevens Brent M	BO,DIR	Concrete Pumping	BBCP	3	12/6/18	\$8.36	11,005,275	240	50
000	+0	8/29/18	Brennan Patrick Thomas	DIR	Emergent Cap	EMGC	3	12/11/18	\$0.09	10,200,000	14	260
	-2	4/30/18	Archon Capital Management	BO	ConforMIS	CFMS	3	12/12/18	\$0.40	7,610,455	25	700
000	-0	3/14/18	Oak Tree Archway	BO	Shiloh Ind	SHLO	3	12/11/18	\$6.53	7,300,866	153	70
000	-0		Contrarius Investment Management Ltd	BO	Express	EXPR	3	12/12/18	\$4.99	7,125,241	342	2,380
000	-		Vertex Pharmaceuticals \(europe\) Ltd	BO	Crispr Therap AG	CRSP	3	12/20/18	\$22.73	5,250,000	1,180	880
000			Hite Hedge Asset Management	BO	Falcon Minerals	FLMN	3	12/4/18	\$7.11	5,039,476	610	840
000	-0		Chavez Miguel	BO	Robert Half Intl	RHI	3	12/17/18	\$54.04	4,000,000	6,565	1,190
000	-0		Realty Adv Inc	BO	New Concept Energy	GBR	3	12/4/18	\$1.40	3,060,000	3	70
000	+0		*	DIR			3				14	260
000			Houk Matthew D		Emergent Cap	EMGC		12/11/18	\$0.09	2,792,442		
• • • •			Blackrock Inc	BO	Envestnet	ENV	3	12/17/18	\$47.38	2,355,816	2,166	370
000			Brigade Leveraged Capital Structures Fd		Libbey	LBY	3	12/13/18	\$4.16	2,290,000	92	140
000			Brigade Capital Management	BO	Libbey	LBY	3	12/12/18	\$4.16	2,280,000	92	140
000			Mcelhaugh Michael J	0	Arbutus Biopharma	ABUS	3	12/11/18	\$3.51	1,387,457	195	220
	+0	10/7/15	Saba Capital Management L P	BO	Invesco Van Kampen High Inc	VLT	3	12/13/18	\$12.13	1,066,507	99	50
	NR	NR	Rice William G	CB,CEO	Aptose Biosciences	APTO	3	12/21/18	\$1.98	133,014	72	250
	NR	NR	Platzer Erich	DIR	Aptose Biosciences	APTO	3	12/21/18	\$1.98	115,000	72	250
	NR	NR	Chow Gregory K	CFO,VP	Aptose Biosciences	APTO	3	12/21/18	\$1.98	112,014	72	250
000	-0	8/21/18	Farris Ray G	VP	Lee Enterprises	LEE	3	12/6/18	\$2.06	106,151	118	380
000	0	11/6/18	Fillmore John Paul	0	Chegg	CHGG	3	12/20/18	\$25.89	85,403	2,975	1,350
000	-0	11/13/18	Kaes Peter	GC,VP	Rapid7	RPD	3	12/14/18	\$28.93	84,315	1,369	550
000	-0	11/13/18	Luconi Christina	HR	Rapid7	RPD	3	12/14/18	\$28.93	72,153	1,369	550
000	-0	8/7/18	Gaudette Robert J	VP	NRG Energy	NRG	3	12/6/18	\$37.21	68,918	10,788	6,780
	NR	NR	Whitehead Warren	DIR	Aptose Biosciences	APTO	3	12/21/18	\$1.98	50,000	72	250
+	-100	4/23/18	Fees Jessica	0	Surface Oncology	SURF	3	12/14/18	\$3.70	45,904	102	300
000 -	+0.5	12/19/18	Glickman Mark A	0	Esperion Therap	ESPR	3	12/20/18	\$39.26	20,000	1,053	710
	NR	NR	Burger Denis R	DIR	Aptose Biosciences	APTO	3	12/21/18	\$1.98	16,254	72	250
000	-0		Bramley Claire	CT	HP	HPQ	3	12/15/18	\$19.65	15,819	30,526	13,890
000			Churchey Randy L	DIR	Jernigan Cap	JCAP	3	12/6/18	\$19.92	13,085	406	310
000			· · ·	TO,VP	•	TTEC	3		\$25.12			
	-0		Pollema Steven C		TTEC			12/13/18		11,681	1,160	110
000	NR	NR	Vincent Mark D	DIR	Aptose Biosciences	APTO	3	12/21/18	\$1.98	6,500	72	250
000	+0		Costa Jennifer E	GC,VP	Stage Stores	SSI	3	12/17/18	\$1.10	6,096	31	190
000	0		Srinivasan Padmanabhan T	VP	LogMeln	LOGM	3	12/6/18	\$78.59	5,061	4,021	860
000	-0		Black Christopher James	CFO,VP	Franklin Finl Network	FSB	3	12/12/18	\$25.86	5,000	376	100
000	+0		Nabel Elizabeth G	DIR	Tekla World Healthcare Fd	THW	3	12/13/18	\$10.92	3,799	332	250
000			Nabel Elizabeth G	DIR	Tekla Healthcare Ops Fd	THQ	3	12/13/18	\$15.19	2,816	651	250
	+0		Nabel Elizabeth G	DIR	Tekla Life Sciences Investors	HQL	3	12/13/18	\$13.99	2,787	308	200
	+0	10/17/18	Nabel Elizabeth G	DIR	Tekla Healthcare Inv	HQH	3	12/13/18	\$16.57	2,417	689	320
000	0	2/5/18	Grant William F III	DIR	MidSouth Banc	MSL	3	12/12/18	\$10.44	2,000	174	30
	+0.5	11/16/18	Letier A Scott	DIR	Conduent	CNDT	3	12/18/18	\$10.01	2,000	2,115	3,490
000	0	12/18/18	Carter Maverick	DIR	Live Nation Ent	LYV	3	12/18/18	\$48.76	2,000	10,217	1,280
000	0	2/28/18	Coady Trisha L	VP	HealthStream	HSTM	3	12/14/18	\$23.28	1,660	753	160
000	+0	12/21/18	Stebbins Peggy J	CAO,CT	First Business Finl	FBIZ	3	11/30/18	\$19.70	1,055	173	20
000	0	9/18/18	Bennett John Buel	VP	LogMeln	LOGM	3	12/6/18	\$78.59	774	4,021	860
000	-0	12/4/18	Damgard John M	DIR	Interactive Brokers	IBKR	3	12/1/18	\$52.40	500	21,762	720
000	-0		Milligan Stephen D	DIR	Autodesk	ADSK	3	12/13/18	\$120.30	196	26,347	2,190
000	0		lves Louisa M	DIR	First of Long Island	FLIC	3	12/20/18	\$19.62	75	500	70
000	+1		Burns John Thomas	CT,FO,VP	Sellas Life Sciences	SLS	3	12/17/18	\$1.22	18	27	330
000	-0		Varughese John	VP	Dunkin Brands	DNKN	3	12/10/18	\$64.29	10	5,310	900
	-0	11/0/10	varagnose oonn	V I	Barikin Branus		5	12/10/10	ψ04.23	10	3,310	300

INSIDER INSIGHTS

Newsletter: Dec 24, 2018

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A=Assistant, AI=Affiliated Investor, AO=Accounting Officer, BD=Business Development, BO=Beneficial Owner, CAO=Chief Accounting Officer, CB=Chairman, CCO=Chief Compliance Officer, CEO=Chief Executive Officer, CFO=Chief Financial Officer, CIO=Chief Information Officer, CO=Compliance Officer, COO=Chief Operating Officer, CT=Controller, CTO=Chief Technology Officer, DIR=Director, F=Founder, FO=Financial Officer, GC=General Counsel, HR=Human Resources, IO=Information Officer, IR=Investor Relations, LO=Legal Officer, MD=Managing Director, O=Officer, OO=Operating Officer, PR=President, PT=Partner, REL=Relative of insider, SEC=Secretary, SH=Shareholder, SO=Sales Officer, TO=Technology Officer, TR=Treasurer, TT=Trustee, VCB=Vice Chairman, VP=Vice President, X=Ex Officer or other title displayed.

KEY FOR TRANSACTION TYPE CODES:

B = Open-Market Insider Buy.

S = Open-Market Insider Sale.

+3

AB = Automatic Buy through the insider's 10b5-1 program.

- AS = Automatic Sale through the insider's 10b5-1 program
- JB* = Supposed Open-Market Acquisition done outside the price range or trading volume on the day.
- JS* = Supposed Open-Market Disposition done outside the price range or trading volume on the day.

OB = Option Exercise that was not sold at all.

- OE* = Option Exercise that was only partially sold.
- OS* = Partial Sale of Exercised Options.

OE = Option Exercise that was completely sold.

- OS = Complete Sale of Exercised Options.
- JB = Non Open-Market Acquisition (Transaction Price is often unrelated to market price on the day).
- JS = Non Open-Market Disposition (Transaction Price often unrelated to market price on the day).

3 = Form 3 filing indicating new insider. New insiders must file a Form 3 whether or not they have any holdings in the company.

KEY FOR INSIDERINSIGHTS COMPANY RATINGS: SIGNIFICANTLY BULLISH

Interpreting our color-coded Ratings icons is straightforward: Green is Bullish; Red is Bearish.

Some Significantly Bullish and Bearish Ratings are clearly stronger than others. Reasons for a Significant Rating gar-**+**2 SIGNIFICANTLY BULLISH nering 2 or 3 colored icons instead of just one include: clusters of insiders acting similarly; insiders having very predic-00 +1 SIGNIFICANTLY BULLISH tive track records (as per our Insider Statistics); large \$ value transactions, and trades resulting in large changes in holdings; transactions that represent reversals of opinion, and; many other proprietary metrics and behavioral factors. OOO +0.5 LEANING BULLISH Despite computing and relaying different strengths of Significant insider signals, however, we do not purport that a +3 000 +0 INSIGNIFICANTLY BULLISH or -3 Significance Rating is three times more likely to be correct, or is more likely to result in a larger stock move. Our back tests and experience indicate that the major alpha generation comes from the fact that a stock's insider 0 **CONFLICTING PURCHASES & SALES** activity has surpassed our calculated threshold of Significance. The strength of Significance is less important. -0 INSIGNIFICANTLY BEARISH It is further valid to consider stocks with Ratings that are merely Leaning Bullish or Bearish in your long and short 0.5 LEANING BEARISH analysis, as these Ratings have also proved to generate alpha, though less than Significant Ratings. Ratings should also be interpreted in concert with a stock's price action. It is normal behavior for insiders to buy -1 SIGNIFICNATLY BEARISH when their stock has fallen in price, and sell when it rises sharply. So even an Insignificantly Bullish Rating on a -2 SIGNIFICNATLY BEARISH stock that has doubled, or Insignificantly Bearish Rating on a stock that has halved in price imparts intelligence. Our Ratings are considered "active" for 3 months, or until replaced by another Rating. -3 SIGNIFICNATLY BEARISH _____ +200 Purchases During Corporate Action. May occasionally relay arbitrage intelligence. +100 Purchases Related to IPO. Value of investment intelligence is uncertain when stock is unseasoned. -100 Sales Related to IPO. Value of investment intelligence is uncertain when stock is unseasoned. -200 Sales During Corporate Action. May occasionally relay arbitrage intelligence. NR Not Yet Rated There has not been a combination of insider activity and other factors to warrant a Rating.

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