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INSIDE THE MARKET

Our Interpretation of Insiders' Top-Down Sentiment.

More nasty losses last week, and this week has started off horrifically. And so investors are reminded yet again that—despite the time, money, and technology invested to develop fancy schmancy valuation metrics and models—the golden rule in investment analysis is:

A stock is only worth what someone else will pay for it.

I never saw this lesson presented in any of the MBA and CFA texts I studied, but as far as I'm concerned, the first page—nay chapter—of any investment text should be devoted to that irrefutable reality.

We don't pretend to know just when the bottom for this market sell off will be, but we continue to point out that right now continues to be that "blood in the streets" "be greedy when others are fearful" sort of time. Yes, you have to have a longer-term investment horizon to boldly dive into this present abyss, but there is a bottom in there, and there will be a bounce when it is hit.

Technically speaking, there is the possibility that today's close in the S&P 500 Index could

at least justify a dead cat catching some air. This benchmark traded briefly today below the intra-day low it hit on February 9th—and it firmed in short order. Some follow thorough in coming sessions would be much appreciated.

Absolutely NOT appreciated is the obvious (in hindsight, that is) whipsaw action we just experienced (yet again) in our Insider-Based Market Indicator.

As we lamented in this section for most of this year, our Indicator is not constructed to be a short-term trading signal. It is built to confirm—or not—longer-term trend changes in the market after they begin. So when market trends play out as quickly and intensely as they have recently, our Indicator is out of its element. That acknowledged limitation was no big deal a lifetime ago when our Indicator typically generated one or two (very reliable) signals a year. But whipsaw action became the norm leading into the 2008 market crash. And after working off a 4-year "Buy" signal from the fall of 2011, we've been solidly back in worrisome whipsaw mode for a while now.

(Continued on page 4)

NEW RECOMMENDATIONS

Stocks added to our Recommended List.

Spartan Motors (SPAR) @ \$7.17

(Recommended Via 12/11 Email alert.)

The poor price action of major indices last week made plain that the market is still in its bottoming process. A retest of lows is a definite possibility—for the indices as well as the individual stocks we're trying to bottom-feed on.

Nonetheless, we're picking up another troubled stock on the basis that the world is not ending, and betting the trade wars will calm down before U.S. manufactures are forced to reduce 2019 expectations even further than they already have.

Spartan Motors makes custom vehicles for commercial fleets. It operates through three segments: Emergency Response Vehicles, Fleet Vehicles and Services, and Specialty Chassis and Vehicles.

We nearly doubled our money in shares of Spartan Motors during our last holding period between 4/24/17 and 2/19/18. Looks like we sold this position well back then as well. SPAR ended up trading sideways for months after we sold it earlier this year--before cratering this fall.

Spartan's present issues, of course, are the same affecting most rust-belt metal benders: Tariffs have increased costs while also acting as a headwind to end demand, as well as overall GDP growth. And this huge negative for Spartan and its peers will affect their Q4s as well. Too late for it not to.

So buying SPAR now is absolutely another case of trying to be greedy while others are fearful. Unfortunately, we have to agree that the fear is justified. The trade wars will end at some point, but just "when" is the concern. We are absolutely shouldering great near-term risk that the trade wars get worse before they get better, and anyone who feels strongly that the trade rhetoric and ramifications will only worsen in coming weeks should definitely hold off trying to bottom feed on SPAR or any other beaten-down

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Director of Research: Jonathan Moreland





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



NEW RECOMMENDATIONS

Stocks added to our Recommended List.

(Continued from page 1)

metal bender right now.

With a one-year time frame, we can justify buying all of our recent New Recommendations again right now on a valuation basis. We could also win in the short term with SPAR and other of our beaten-down manufacturing plays if there is a whiff of positive news regarding trade negotiations.

But the easiest way to own a bunch of deep-value stocks is to buy "value" plays in a terrible market--and wait a few weeks. That already describes more of our recent New Recommendations than we'd like to admit. And while we can point out that SPAR is trading for "just" 12 times next year's average EPS estimate of \$0.62 even though the metric would represent 40% earnings growth, estimates have come down big-time in the past two months—and could well do so again. At the end of September, the sell-side consensus was for SPAR to earn 64 cents this year and \$1.08 in 2019. The company is now expected to post just 44 cents this year, which would be flat with 2017.

Even if Spartan's estimates have stabilized, there is nothing to stop poor investor sentiment in coming weeks from making a stock like SPAR trade for "just" 10 or even 8 times expected EPS. It's happened before, and it'll happen again.

But rationality will eventually return to both trade policy and the valuations of manufacturing firms, and the bottom feeding that has been thankless for months now will eventually be seen as having been a smart longer-term move.

Despite Spartan's big Q3 miss, the three analysts following SPAR still rate it Buy or better, and the low-end price target for the stock is \$12.

Five Spartan insiders have bought \$777k worth of their crushed stock over the past month, paying as much as \$7.64 per share. This is an even larger insider buying cluster than the one that got us into our last winning bet on SPAR back in April 2017.

COMPANY UPDATES

Updated research on past recommendations.

None (again) this issue.

With all our positions down yet again last week, it doesn't make sense to trade out of any names at their present (and we obviously think, oversold) prices.

And although our hopes for any meaningful rebound in the indices by year end have been beaten out of us, we still expect most of our beaten-down stocks to bounce back strongly when the market finally does decide to act more rationally. Whether this will be in a few sessions, weeks or months, however, is really anyone's guess at this point.

Sure, we got back fully invested too early. But we're sanguine about the buckets of red ink we're carrying right now. Reviewing the casualties on our Recommended List, I'm reminded of the crude saying that underwear isn't dirty until you take it off. We still expect the sales of most of our beaten-down stocks to be for profits when the time comes. And unless you think the economic order as we know it is ending, this is just the time you should be bottom feeding with a longerterm investment horizon.





INSIDE THE MARKET

Our Interpretation of Insiders' Top-Down Sentiment.

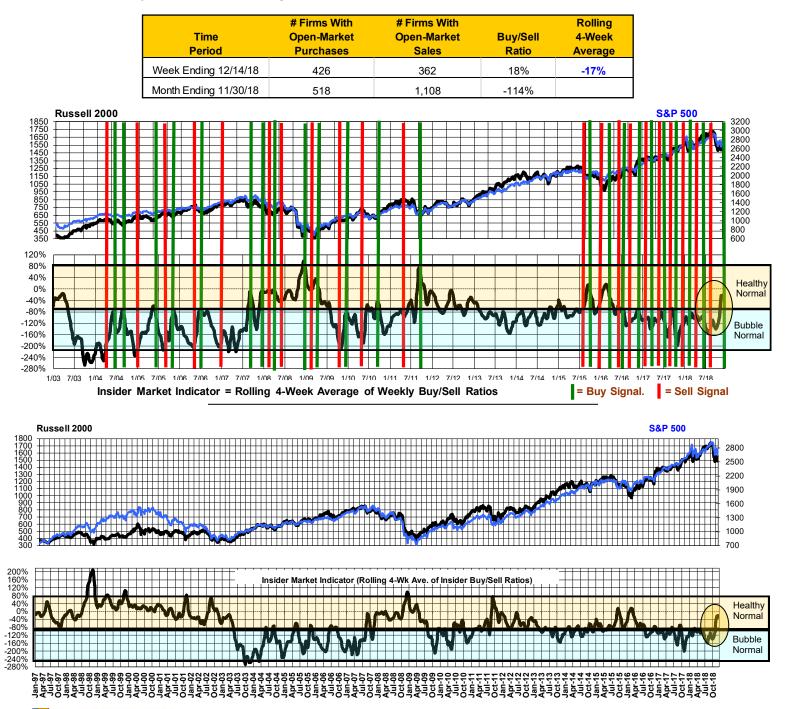
(Continued from page 1)

After a 7-week active Bearish signal for our Indicator (the longest trend in over two years?!) flipped Bullish during the week ended November 23rd, it seemed reasonable to bet on at least minor relief via some usual seasonal strength. But our Indicator inflected Bearish again (though just) last issue—and that bearish inflection strengthened again last week. Looking a recent trends in insider filings, we'd be surprised to see our Indicator flash another bullish inflection this year.

Which is not to say Mr. Market can't still give us all a little

something in our Christmas stockings. Our Indicator is usually a week or two behind the real bottom, and a dovish Fed event this week, avoidance of a government shutdown, and/or the whiff or any reason returning to trade discussions could easily start the bidding process.

Of course, these catalysts could all turn more negative as well, prompting another leg down for the market and the necessity for an even longer investment horizon. Hopefully the scriptwriters for *The Real Presidents of DC* realize their show has real-world consequences.



INSIDERINSIGHTS

InsiderInsights

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"

Inside	er Rating		Insider	Rating		Insid	der	Rating	
Rating	0	Ticker	Rating*	Date Company	Ticker	Ratir		Date Company	Ticker
000	+1 12/14/18 Ra Pharm	RARX	• • • •	12/11/18 Lixte Biotechnology	LIXT	000	0	11/29/18 Sothebys	BID
000	+1 12/14/18 Fluidigm	FLDM	0 00 +1	12/11/18 Century Banc	CNBKA	000	+1	11/29/18 Avanos Medical	AVNS
000	+0.5 12/14/18 Berry Petrol	BRY	0 00 +1	12/11/18 Royce Global Value Tr	RGT	000	+0.5	11/29/18 Phillips 66 LP	PSXP
000	+0.5 12/14/18 KLX Energy Svs	KLXE	000 +0.5	12/11/18 Synergy CHC	SNYR	000	+1	11/29/18 Tallgrass Energy LP	TGE
000	+2 12/14/18 Compass Diversified	CODI	000 +0.5	12/11/18 B Riley Finl	RILY	000	+3	11/29/18 Core Molding Tech	CMT
000	+2 12/14/18 Koppers	KOP	000 +0.5	12/11/18 HighPoint Res	HPR	000	+1	11/28/18 Macquarie Infra	MIC
000	+0.5 12/14/18 Gaming & Leisure Pr	GLPI	000 +0.5	12/11/18 New Mtn Finance	NMFC	000	+1	11/28/18 Otelco	OTEL
000	+2 12/14/18 Superior Energy Svs	SPN	0 00 +1	12/11/18 Autoweb	AUTO	000	+1	11/28/18 Celgene	CELG
000	+0.5 12/14/18 Bank of Commerce	BOCH	0 00 +1	12/10/18 Quotient	QTNT	000	+1	11/28/18 Welbilt	WBT
000	+0.5 12/14/18 Alcentra Cap	ABDC	0 00 +0.5	12/10/18 Trinity Ind	TRN	000	+1	11/28/18 Kimbell Royalty LP	KRP
000	+1 12/14/18 Open Bank	OPBK	●OO +1	12/10/18 Meta Finl	CASH	000	+0.5	11/28/18 NGL Energy LP	NGL
000	+2 12/14/18 Lands End	LE	●OO +1	12/10/18 United Continental	UAL	000	+0.5	11/27/18 Amyris	AMRS
000	+1 12/14/18 Alamo	ALG	0 00 +1	12/10/18 Cerecor	CERC	000	+1	11/27/18 Contango Oil & Gas	MCF
000	+1 12/14/18 Bay Banks of Virginia	BAYK	0 00 +1	12/10/18 Trinseo SA	TSE	000	+1	11/27/18 CorMedix	CRMD
	+0.5 12/14/18 Randolph Banc	RNDB	4	12/10/18 Black Stone Minrls LP	BSM	000	+0.5	11/27/18 Provention Bio	PRVB
000	+0.5 12/14/18 OptiNose	OPTN	000 +0.5	12/10/18 Aeglea Bio Therap	AGLE	000	+1	11/26/18 Sunrun	RUN
000	+0.5 12/14/18 WideOpenWest	WOW	000 +0.5	12/10/18 Vectrus	VEC	000	+2	11/26/18 Beacon Roofing Supply	BECN
000	+0.5 12/14/18 Full House Resorts	FLL		12/10/18 Tronox	TROX	000	+1	11/26/18 Aquestive Therap	AQST
000	+1 12/13/18 Mohawk Ind	MHK	000 +0.5	12/10/18 Tyson Foods	TSN	000	+0.5	11/26/18 CNB Finl	CCNE
000	+2 12/13/18 Aramark	ARMK		12/10/18 Summit Materials	SUM	000	+1	11/23/18 Citizens Finl	CFG
000	+2 12/13/18 Live Oak Banc	LOB		12/10/18 Centerstate Bank	CSFL	000	+1	11/23/18 US Concrete	USCR
000	+0.5 12/13/18 Hartford Finl Svs	HIG		12/10/18 Ocular Therapeutix	OCUL	000	+0.5	11/23/18 Ryerson	RYI
000	+1 12/13/18 Intrepid Potash	IPI		12/10/18 Equity Banc	EQBK	000		11/21/18 Fidelity Natl Finl	FNF
000	+3 12/13/18 At Home	HOME	0 00 +1	12/7/18 Apollo Global Mgt	APO	000		11/21/18 Phillips 66	PSX
	+2 12/13/18 United Natural Foods	UNFI	0 00 +1	12/7/18 Clearone	CLRO	000		11/21/18 Hill Intl	HIL
	+2 12/13/18 QCR	QCRH	000 +1	12/7/18 US Auto Parts	PRTS	000		11/21/18 Apollo Endosurgery	APEN
000	+0.5 12/13/18 IRIDEX	IRIX	0 00 +1	12/7/18 Telenav	TNAV	000		11/21/18 Olin	OLN
000	+1 12/13/18 Chesapeake Energy	CHK	A	12/7/18 Horizon Banc	HBNC	000		11/21/18 Arcimoto	FUV
000	+1 12/13/18 RTI Surgical	RTIX		12/6/18 Enanta Pharm	ENTA	000		11/21/18 Alpha & Omega Semi	AOSL
A	+0.5 12/13/18 Daseke	DSKE	+1 ••••	12/6/18 Kura Oncology	KURA	000		11/20/18 Platform Specialty Prod	PAH
000	+0.5 12/13/18 General Amer Inv	GAM		12/6/18 Liberty Sirius XM	LSXMA	00 0		11/20/18 ASGN	ASGN
000	+0.5 12/13/18 Majesco	MJCO		12/6/18 Griffon	GFF	000		11/20/18 Amer Airlines	
000	+0.5 12/13/18 PB Banc	PBBI		12/6/18 Evoqua Water Tech	AQUA	000		11/20/18 Cannae	
000	+1 12/13/18 Natl Bank	NKSH		12/6/18 Lifetime Brands	LCUT	000		11/20/18 Lazydays	
000	+0.5 12/13/18 MusclePharm	MSLP		12/6/18 Parsley Energy	PE IO	000		11/20/18 CBTX	CBTX
000	+1 12/12/18 Newmark	NMRK SPKE	•000 +1 •000 +0 5	12/6/18 Ion Geophysical	PPBI	000		11/20/18 Mueller Ind	MLI OMP
6 00	+1 12/12/18 Spark Energy	AROC	+0.5	12/6/18 Pacific Prem Banc	KDP	000		11/20/18 Oasis Midstream LP	DLPH
000	+0.5 12/12/18 Archrock +1 12/12/18 Thor Ind	THO	000	12/4/18 Keurig Dr Pepper 12/4/18 Wells Fargo	WFC	000		11/20/18 Delphi Tech PLC 11/20/18 Corp office Pr Tr	OFC
000			A00			000			
A O O	+0.5 12/12/18 Penn Natl Gaming +0.5 12/12/18 Achaogen	PENN AKAO	A	12/4/18 First Internet Banc 12/3/18 Entercom Comms	INBK ETM	000		11/20/18 Arotech 11/19/18 Lilis Energy	ARTX LLEX
000	+0.5 12/12/18 Talos Energy	TALO	A O O	12/3/18 Brunswick	BC	000		11/19/18 AVEO Pharm	AVEO
000	+0.5 12/12/18 Synalloy	SYNL	+0.3	12/3/18 Matador Res Co	MTDR	000		11/19/18 Westlake Chemical	WLK
000	+1 12/12/18 Sequential Brands	SQBG	A00	12/3/18 Rosehill Res	ROSE	000		11/19/18 NexPoint Res Tr	NXRT
000	+0.5 12/12/18 Washington Prime	WPG	A	12/3/18 NB Hi Yld Str Fd	NHS	000		11/19/18 XOMA	XOMA
000	+1 12/12/18 TCG BDC	CGBD	•00 +1	12/3/18 School Specialty	SCOO	000		11/19/18 Tile Shop	TTS
000	+0.5 12/12/18 HCI	HCI	A OO	12/3/18 Plumas Banc	PLBC	000		11/19/18 EQT	EQT
000	+1 12/12/18 Safeguard Scientifics	SFE	A00	11/30/18 Allegiance Banc	ABTX	000		11/19/18 SS&C Tech	SSNC
000	+1 12/11/18 Huntsman	HUN		11/29/18 PacWest Banc	PACW	000		11/19/18 Spirit of Texas Banc	STXB
000	+0.5 12/11/18 Amers Car-Mart	CRMT	A 00	11/29/18 FAT Brands	FAT	000		11/19/18 Realogy	RLGY
			5.0						<u>,</u> ,

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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Insider Rating		Insider	Dating		Insider	Dating	
Insider Rating Rating* Date Company	Ticker	Rating*	Rating Date Company	Ticker	Rating*	Rating Date Company	Ticker
+1 11/19/18 Apple Hospitality Reit	APLE	A 00	11/13/18 Flexion Therap	FLXN	000 +1	11/5/18 QTS Rity Tr	QTS
•••• +2 11/19/18 AcelRx Pharm	ACRX	A	11/13/18 Red Violet	RDVT	0 00 +1	11/5/18 Hersha Hospitality Tr	HT
000 +0.5 11/19/18 Allergan plc	AGN	A A A	11/13/18 BlueLinx	BXC	000 +0.5	11/5/18 SB One Banc	SBBX
000 +0.5 11/19/18 Aegion	AEGN	A	11/13/18 lchor	ICHR		11/5/18 Severn Banc	SVBI
•00 +1 11/19/18 Invacare	IVC		11/13/18 Horizon Global	HZN	A	11/5/18 Summit Hotel Prop	INN
• • • • • • • • • • • • • • • • • • •	COTY	A00	11/13/18 Ampco-Pittsburgh	AP		11/5/18 Viper Energy LP	VNOM
000 +0.5 11/16/18 Presidio	PSDO	A A A	11/13/18 Townsquare Media	TSQ	000 +1	11/2/18 Insmed	INSM
• +1 11/16/18 Agua Amer	WTR	A00	11/13/18 West Bancoration	WTBA	0 00 +1	11/2/18 Columbia Finl	CLBK
•••• +2 11/16/18 Superior Ind Intl	SUP	0 00 +1	11/9/18 Fiesta Restaurant	FRGI	0 00 +1	11/2/18 Mid Penn Banc	MPB
• 00 +1 11/16/18 Main Street Cap	MAIN	000 +0.5	11/9/18 StealthGas	GASS	000 +0.5	11/2/18 Southern Natl Banc	SONA
• 00 +1 11/16/18 Innodata	INOD	0 00 +1	11/9/18 Perrigo PLC	PRGO	000	11/1/18 Nuverra Environ	NES
+2 11/16/18 Roadrunner Trans	RRTS	••• +2	11/9/18 Stifel Finl	SF	0 00 +1	11/1/18 RumbleON	RMBL
● 000 +0.5 11/16/18 Overseas Shipholding	OSG	0 00 +1	11/9/18 Infinera	INFN	0 00 +1	11/1/18 Riverview Banc	RVSB
• 1 11/16/18 Chembio Diagn	CEMI	0 00 +1	11/9/18 Camping World	CWH		11/1/18 ACCO Brands	ACCO
+0.5 11/16/18 UMH Prop	UMH	0 00 +1	11/9/18 Deluxe	DLX	000	10/31/18 StoneMor LP	STON
• • • • • • • • • • • • • • • • • • •	LNG	0 00 +1	11/9/18 SmartFinancial	SMBK		10/31/18 GMS	GMS
• 1 11/15/18 Greenhill	GHL	0 00 +1	11/8/18 LyondellBasell Ind NV	LYB		10/31/18 Capstead Mort	CMO
•000 +1 11/15/18 Infinity Pharm	INFI	0 00 +1	11/8/18 Unifi	UFI		10/31/18 Visteon	VC
•00 +1 11/15/18 General Electric	GE	0 00 +1	11/8/18 Nabors Ind	NBR		10/31/18 Sherwin-Williams Co	SHW
+1 11/15/18 Westlake Chemical LP	WLKP	0 00 +1	11/8/18 Cooper-Standard	CPS	000	10/31/18 Century Aluminum Co	CENX
+1 11/15/18 Ellington Res Mort Reit		0 00 +1	11/8/18 Univar	UNVR	000	10/30/18 Caterpillar	CAT
• 11/15/18 Usa Compression LP	USAC	•••• +2	11/8/18 PRGX Global	PRGX		10/30/18 Lakeland Finl	LKFN
• 11/15/18 Houston Wire & Cable	HWCC	0 00 +1	11/8/18 Internap	INAP		10/30/18 Stock Yards Banc	SYBT
+0.5 11/15/18 Arcus Biosciences	RCUS	000 +0.5	· · · · ·	GABC		10/30/18 Investar	ISTR
+1 11/14/18 Air Prod & Chemicals	APD	0 00 +1	11/8/18 US Xpress Enterprises	USX	000	10/30/18 H&E Equipment Svs	HEES
• 11/14/18 DISH Network	DISH		11/8/18 Vulcan Materials	VMC		10/30/18 Hubbell	HUBB
•00 +1 11/14/18 GEO	GEO	0 00 +1	11/7/18 Heritage Insurance	HRTG	000	10/30/18 Two Rivers Banc	TRCB
• • • • • • • • • • • • • • • • • • •	GSKY	0 00 +1	11/7/18 Hudson Pacific Prop	HPP		10/29/18 Ballantyne Strong	BTN
•0.5 11/14/18 CASI Pharm	CASI	A00	11/7/18 AdvanSix	ASIX		10/29/18 AT&T	T
•00 +1 11/14/18 RiceBran Tech	RIBT	0 00 +1	11/7/18 Kaman	KAMN		10/29/18 FNB	FNB
•000 +1 11/14/18 Kingstone	KINS	A	11/7/18 ImmunoGen	IMGN		10/26/18 Cadence Banc	CADE
+0.5 11/14/18 Houghton Mifflin	HMHC	0 00 +1	11/6/18 Bunge	BG	A A A	10/26/18 FleetCor Tech	FLT
•00 +1 11/14/18 Ellington Finl	EFC	.	11/6/18 Pfizer	PFE		10/26/18 United Rentals	URI
• • • • • • • • • • • • • • • • • • •	GDEN	••• +2	11/6/18 Cedar Fair LP	FUN		10/26/18 PolyOne	POL
000 +0.5 11/13/18 Amer Finl	AFG	0 00 +1	11/6/18 Churchill Downs	CHDN		10/26/18 Amer Natl Bank	AMNB
•000 +1 11/13/18 Front Yard Res	RESI		11/6/18 Altra Industrial Motion	AIMC	• • • •	10/26/18 Proteostasis Therap	PTI
•000 +1 11/13/18 Amer Assets Tr	AAT	•••• +2	11/6/18 McDermott Intl	MDR		10/26/18 Paychex	PAYX
+1 11/13/18 Eldorado Resorts	ERI	A	11/6/18 Principal Finl	PFG		10/26/18 MGIC Inv	MTG
+1 11/13/18 Accelerate Diagn	AXDX	A O O	11/6/18 Teradata	TDC	A AAA	10/26/18 Sterling Banc	SBT
+3 11/13/18 Versum Materials	VSM	A00	11/6/18 City office Reit	CIO	A AAA	10/25/18 Ligand Pharm	LGND
• • • • • • • • • • • • • • • • • • •	LMRK	0 00 +1	11/6/18 Essential Prop Rity Tr	EPRT	A AAA	10/25/18 Odonate Therap	ODT
+0.5 11/13/18 Natl CineMedia	NCMI	A	11/6/18 Timken Co	TKR		10/25/18 JMP	JMP
• +1 11/13/18 Commscope	COMM	A AAA	11/6/18 Peapack-Gladstone Fin			10/25/18 VF	VFC
• +1 11/13/18 Basic Energy Svs	BAS	•00 +1	11/6/18 Amarillo Biosciences	AMAR	A AAA	10/25/18 Sterling Banc	STL
+1 11/13/18 Marriott Vacations	VAC	••• +3	11/5/18 Encana	ECA		10/25/18 Synovus Finl	SNV
• • • • • • • • • • • • • • • • • • •	ECPG	•••• +2	11/5/18 IBM	IBM	A A A	10/25/18 Home Banc	HOMB
+0.5 11/13/18 Medley Mgt	MDLY	•••• · <u>2</u>	11/5/18 Amer Axle & Manufact	AXL		10/25/18 Sensient Tech	SXT
• • • • • • • • • • • • • • • • • • •	VRAY	••• +2	11/5/18 E*TRADE Finl	ETFC		10/25/18 Orrstown Finl Svs	ORRF
• • • • • • • • • • • • • • • • • • •	CDK	A AAA	11/5/18 Capstar Finl	CSTR	• • • •	10/24/18 Crown Castle Intl	CCI
+0.5 11/13/18 WP Carey	WPC	•••• +1	11/5/18 Spartan Motors	SPAR		10/24/18 First Finl Banc	FFBC
	WF C		inorio opartan motors				1100

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		Insider	Rating		Insider	Rating		
Rating* Date Company	Ticker	Rating*	Date Company	Ticker	Rating*	Date	Company	Ticker
+1 10/23/18 Freds	FRED	0 00 +1	10/17/18 RPM Intl	RPM	0 00 +1	10/1/18	FlexShopper	FPAY
•000 +0.5 10/23/18 Aclaris Therap	ACRS	0 00 +1	10/17/18 FS Banc	FSBW	0 00 +0.5	10/1/18	Encore Wire	WIRE
+1 10/22/18 First Horizon Nat	FHN	0 00 +0.5	10/16/18 Bassett Furniture Ind	BSET	0 00 +0.5	10/1/18	Novan	NOVN
+1 10/22/18 Krystal Biotech	KRYS	000 +0.5	10/15/18 PIMCO Dynamic Inc Fd	PDI	0 00 +1	9/28/18	Dollar Tree	DLTR
••• +2 10/22/18 AZZ	AZZ	0 00 +1	10/11/18 Sprott Focus Tr	FUND	0 00 +0.5	9/28/18	RegeneRx Biopharm	RGRX
• +1 10/19/18 Texas Cap Banc	TCBI	••• +2	10/11/18 Malvern Banc	MLVF	0 00 +1	9/25/18	Titan Pharm	TTNP
• +1 10/18/18 Intl Flavors & Fra	ig IFF	0 00 +1	10/9/18 Kala Pharm	KALA	0 00 +0.5	9/25/18	Carpenter Tech	CRS
000 +0.5 10/18/18 Planet Green	PLAG	0 00 +1	10/9/18 KemPharm	KMPH	0 00 +0.5	9/24/18	ACADIA Pharm	ACAD
000 +0.5 10/18/18 FedEx	FDX	0 00 +1	10/9/18 Meet	MEET	0 00 +0.5	9/17/18	Hyster-Yale Materials	HY
+2 10/17/18 Ladenburg Thal	mann LTS	0 00 +1	10/3/18 Barings BDC	BBDC				
+1 10/17/18 Bridge Banc	BDGE	0 00 +1	10/2/18 Verastem	VSTM				

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	<u> </u>		Inside		Rating		Insid		Rating	2	T 1 1
Rating*	Date	Company	Ticker	Rating	g^	Date Company	Ticker	Ratin	g^	Date	Company	Ticker
●OO -1	12/14/18	TherapMD	TXMD	000	-0.5	11/21/18 eBay	EBAY	000	-1	11/8/18	Fitbit	FIT
••••	12/13/18	Veritone	VERI	000	-0.5	11/21/18 Oasis Petrol	OAS	•••	-2	11/5/18	Snap	SNAP
0.5	12/13/18	Macerich Co	MAC	000	-1	11/20/18 Castlight Health	CSLT	000	-1	11/2/18	Ditech	DHCP
000 -0.5	12/11/18	Applied Minerals	AMNL	000	-0.5	11/20/18 Ameri	AMRH	000	-0.5	11/1/18	Freeport-McMoRan	FCX
000 -0.5	12/10/18	Keane	FRAC	000	-1	11/19/18 Facebook	FB	000	-0.5	10/22/18	China Com Credit	GLG
000 -0.5	12/6/18	Switch	SWCH	000	-0.5	11/19/18 Cognizant Tech	CTSH	000	-1	10/18/18	Flex Pharma	FLKS
000 -0.5	12/6/18	Arista Networks	ANET	000	-0.5	11/19/18 Lear	LEA	000	-0.5	10/17/18	Genco Shipping	GNK
●00 _1	12/6/18	Ocwen Finl	OCN	000	-0.5	11/16/18 ICU Medical	ICUI	000	-0.5	10/16/18	Iteris	ITI
000 -0.5	12/6/18	Resonant	RESN	000	-0.5	11/16/18 SiteOne Landscape	SITE	000	-0.5	10/9/18	Fortune Brands	FBHS
000 -0.5	12/4/18	AnaptysBio	ANAB	000	-0.5	11/14/18 Qorvo	QRVO	000	-1	10/4/18	Acorda Therap	ACOR
●00 _1	12/4/18	Redfin	RDFN	000	-0.5	11/14/18 Buckeye LP	BPL	000	-0.5	10/2/18	Lennar	LEN
●00 _1	12/3/18	Forescout Tech	FSCT	000	-1	11/13/18 Collectors Universe	CLCT	000	-1	9/18/18	Iconix Brand	ICON
000 -0.5	11/29/18	Noodles	NDLS	000	-1	11/9/18 Antero Res	AR	00	-1	9/17/18	Vital Therapies	VTL
●00 ₋₁	11/29/18	Nantkwest	NK	000	-0.5	11/9/18 Blue Apron	APRN					
000 -0.5	11/21/18	elf Beauty	ELF	000	-0.5	11/8/18 Alliance Data Sys	ADS					

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"

Indirg Ruing Trans Purcle Type Yatav Type Yatav Type Yatav Type Yatav Type Yatav Type Yatav Yatav <thyatav< th=""> <thyatav< th=""> <thyatav< th=""><th></th><th></th><th></th><th></th><th></th><th>Total</th><th></th><th></th><th></th><th>Latest</th><th>Ave.</th><th></th><th>Mkt</th><th>10-Day</th></thyatav<></thyatav<></thyatav<>						Total				Latest	Ave.		Mkt	10-Day
••••••• •••••• 1120139 Pattorns Pattorn Pattorn <t< th=""><th>Insider</th><th></th><th>Rating</th><th></th><th>Trans</th><th>Purch</th><th>Shares</th><th></th><th></th><th>Trans</th><th>Purch</th><th>Recent</th><th>Сар</th><th>Ave Vol</th></t<>	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 Proc	I PAH	В	\$1,796,850	164,250	2	DIR	12/10/18	\$10.94	\$10.91	3,146	1,910
•• •	••••	3	12/13/18 At Home	HOME	OB,B	\$1,199,667	67,876	5	CB,CEO,CFO,DIR,PR	12/11/18	\$17.67	\$19.10	1,214	2,490
• 2: 12/11/14 Asumits. AMMK B 53/20.003 98.54 2 CACLODRP.Q. 12/14/18 53/2.5 73/15 5.520 • 2: 12/14/18 CODI .42/.8 S1.657.651 98.0161 3 DO. 12/14/18 516.59 816.9 816	••• +	3	11/13/18 Versum Materials	VSM	В	\$527,063	18,000	2	DIR	12/12/18	\$29.28	\$27.79	3,030	940
••••••••••••••••••••••••••••••••••••	•••	2	12/13/18 Live Oak Banc	LOB	В	\$6,642,574	418,800	9	BO,CEO,DIR,GC,PR	12/14/18	\$15.86	\$14.84	596	480
• 2: 12/13/16 OCR OC8H B 5770.815 22.974 3 CFD OC0.DRF.OVP 12/13/18 533.85 5	•	2	12/13/18 Aramark	ARMK	В	\$3,200,503	98,564	2	CB,CEO,DIR,PR	12/13/18	\$32.47	\$32.08	7,915	5,520
+2 12/14/18 Superior Energy See SPN B \$810,021 150,000 3 DR/VP 12/13/18 540 5,510 +2 12/14/18 Kung Dr.Peper NPF B \$446,856 36,000 1 PR 12/10/18 52.00 \$25.25 \$10.84 556 3,910 +2 12/14/18 Kung Dr.Peper NP B \$442,608 17,600 1 PR 12/10/18 \$26.00 \$25.25 443.31 \$14.37 449 \$20 +2 12/14/18 Handel End LE B \$25.731 5.000 1 DR 12/11/18 \$43.38 \$43.55 11072 4.000 +2 12/14/18 Kappers KOP B \$102.000 2 0.000 1 CBC.DDR/P 12/14/18 \$17.37 2.001 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	•	2	12/14/18 Compass Diversified	CODI	JB*,B	\$1,657,851	98,161	3	BO,O	12/14/18	\$16.89	\$13.59	814	280
•• 12/13/16 Linke Matural Foods NFI B \$446.859 36,000 2 ACB_CED_DIRF,PL_P 12/12/16 \$12.27 \$10.94 556 3,570 • -2 12/14/18 Lands End LE B \$269.037 18.800 5 CA_CCC_CPC_OC 12/13/18 \$14.31 \$14.57 \$44.35 \$14.27 400.0 • 2 11/14/18 Lands End LE B \$226.071 5.000 1 DR 12/11/18 \$43.35 \$14.37 21.021 2.600 • 2 12/11/18 Madon Soc CMT B \$12.5731 6.000 1 CR_CDURK, PL 12/11/18 \$10.39 310.39 300 • 12/11/18 MARX .487 \$41.200.008 2.658.005 3 BOLDR 12/11/18 \$10.39 310.39 300 100 12/11/18 \$50.57 2.02 2.241 \$2.63 7.60 47.51 48.00 47.51 47.51 48.00 47.51 47.51 48.50 <td>•</td> <td>2</td> <td>12/13/18 QCR</td> <td>QCRH</td> <td>В</td> <td>\$770,815</td> <td>22,974</td> <td>3</td> <td>CFO,COO,DIR,FO,VP</td> <td>12/13/18</td> <td>\$33.55</td> <td>\$33.34</td> <td>523</td> <td>50</td>	•	2	12/13/18 QCR	QCRH	В	\$770,815	22,974	3	CFO,COO,DIR,FO,VP	12/13/18	\$33.55	\$33.34	523	50
• ·< ·< • ·< ·< ·< <td>•••• +</td> <td>·2</td> <td>12/14/18 Superior Energy Svs</td> <td>SPN</td> <td>В</td> <td>\$610,021</td> <td>150,000</td> <td>3</td> <td>DIR,VP</td> <td>12/13/18</td> <td>\$4.07</td> <td>\$3.82</td> <td>590</td> <td>5,510</td>	•••• +	·2	12/14/18 Superior Energy Svs	SPN	В	\$610,021	150,000	3	DIR,VP	12/13/18	\$4.07	\$3.82	590	5,510
• +2 12/14/18 Lands End LE B \$2690,37 18,800 5 CAO_CEO_CFO_COO 12/13/18 \$14.31 \$14.57 469 520 • +2 11/5/18 ETRADQE Finil ETFC B \$226,731 5.00 1 DIR 521.91 520.94 \$17.116 \$45.20 \$17.7 2,021 2,660 • +2 12/14/18 Stoppers KOP B \$102,200 6.000 1 CEO_DRR_PR 12/14/18 \$17.33 \$16.39 336 366 • +1 12/14/18 Ramm RARX JB* \$41.200,008 2,858,066 3 BO.DR 12/14/18 \$15.50 \$16.29 664 1.080 • +1 12/14/18 Rammark MHK B \$16.000 2 DO.DR 12/11/18 \$15.50 \$16.29 664 1.080 • 11/21/18 MHAK MHK B \$17.73 \$160 12/12/18 \$16.40 <td< td=""><td>•••• +</td><td>2</td><td>12/13/18 United Natural Foods</td><td>UNFI</td><td>В</td><td>\$466,859</td><td>36,000</td><td>2</td><td>A,CB,CEO,DIR,PR,VP</td><td>12/12/18</td><td>\$12.97</td><td>\$10.94</td><td>556</td><td>3,910</td></td<>	•••• +	2	12/13/18 United Natural Foods	UNFI	В	\$466,859	36,000	2	A,CB,CEO,DIR,PR,VP	12/12/18	\$12.97	\$10.94	556	3,910
+ 2 11/3/18 ETFAC B \$2267.91 5.000 1 DR 12/11/18 \$45.36 \$43.55 11,072 4.060 + 2 12/3/18 Mathedric Re-Co MTDR B \$126,731 6.000 1 CEO.DR/PR 12/14/18 \$21.02 16.80 33.6 30.0 + 2 12/14/18 Kontech ARTX B \$500.037 2.2000 3 CB.CEO.DR/PR 12/14/18 \$11.30 31.6 30.0 + 1 12/14/18 Kontech ARTX B \$500.000 2.016.000 2.00.DR 12/14/18 \$11.690 6.660 1.400 + 1 12/14/18 Kontek MKK B \$37.13 1.0327 2.02.00 2.012.000 2.012.0100 2.012.0100 2.012.0118 \$31.00 1.02 + 1 11/21/18 Kontek NBKK B \$37.713 3.06 0.00 2.01111 \$31.68 \$13.02 1.447 1.020 + 1 10/18/18 <	••• +	2	12/4/18 Keurig Dr Pepper	KDP	В	\$454,986	17,500	1	PR	12/10/18	\$26.00	\$25.92	36,006	3,570
+2 12/3/18 Matador Res Co MTDR B \$125,731 6.005 2 CECED DR,VP 12/11/16 \$2.024 \$17.37 2.021 2.660 +2 12/14/18 Koppers KOP B \$102,200 6.000 1 CEC.DIR,PR 12/14/18 \$102,300 3 CECED RR,PR 12/14/18 \$12,30 338 360 +2 12/14/18 Ref RM B* \$41,200,008 2.686,005 3 D.OJR 12/14/18 \$116,88 8.60,037 2.20 12/14/18 \$116,88 8.60 1.40 +1 12/14/18 Rummark MMRK B \$0.074,133 1.003,702 2 CED,DIR 12/11/18 \$80.4 \$9.07 2.205 5.270 4.477 1.200 +1 11/18/18 Linugaria AVER B \$0.074,133 1.003,702 2 CED,DIR 12/11/18 \$1.80 \$1.50 1.4/17 1.020 +1 11/14/18 MURM S1.046,472 1.003,03	00 0 +	2	12/14/18 Lands End	LE	В	\$269,037	18,800	5	CAO,CEO,CFO,COO	12/13/18	\$14.31	\$14.57	469	520
+2 12/14/18 KOP B \$102.200 6.000 1 CEO.DR,PR 12/14/18 \$17.03 \$16.39 336 360 +2 11/20/18 Aratx B \$60.037 22.000 3 CEO.DR,PR 12/14/18 \$12.47 \$12.53 70 70 +1 12/14/18 Roman RARX B \$11.02008 2.056.05 3 D.O.DR 12/14/18 \$11.28 \$12.29 6.000 1.14 S10.06 2 BO.DR 12/14/18 \$11.02 8.000 1.14 +1 12/10/18 Numark MMR B \$0.07.133 1.003.02 2 BO.D 12/14/18 \$10.00 2 80.07 2.280 6.20 +1 11/16/18 R18000 FF B \$7.184.857 \$2.784 1 BO 12/14/18 \$10.00 1 21/14/18 \$10.00 1 21/21/18 \$10.00 1 21/21/18 \$10.00 1 21/21/18 \$10.00 <th< td=""><td></td><td></td><td></td><td></td><td>В</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td>11,072</td><td></td></th<>					В			1					11,072	
+2 12/14/18 KOP B \$102.200 6.000 1 CEO.DR,PR 12/14/18 \$17.03 \$16.39 336 360 +2 11/20/18 Aratx B \$60.037 22.000 3 CEO.DR,PR 12/14/18 \$12.47 \$12.53 70 70 +1 12/14/18 Roman RARX B \$11.02008 2.056.05 3 D.O.DR 12/14/18 \$11.28 \$12.29 6.000 1.14 S10.06 2 BO.DR 12/14/18 \$11.02 8.000 1.14 +1 12/10/18 Numark MMR B \$0.07.133 1.003.02 2 BO.D 12/14/18 \$10.00 2 80.07 2.280 6.20 +1 11/16/18 R18000 FF B \$7.184.857 \$2.784 1 BO 12/14/18 \$10.00 1 21/14/18 \$10.00 1 21/21/18 \$10.00 1 21/21/18 \$10.00 1 21/21/18 \$10.00 <th< td=""><td>••••</td><td>2</td><td>12/3/18 Matador Res Co</td><td>MTDR</td><td>В</td><td>\$125,731</td><td>6,005</td><td>2</td><td>CB,CEO,DIR,VP</td><td>12/11/18</td><td>\$20.94</td><td>\$17.37</td><td>2,021</td><td>2,660</td></th<>	••••	2	12/3/18 Matador Res Co	MTDR	В	\$125,731	6,005	2	CB,CEO,DIR,VP	12/11/18	\$20.94	\$17.37	2,021	2,660
+2 11/20/18 Arolach ARTX B \$60.037 23.000 3 CBLCEO,DIR,PR 12/12/18 \$2.61 \$2.63 70 70 +1 12/14/18 Rapharm RRXX MP \$41,202.008 2.656.065 3 BO,DIR 12/14/18 \$15.06 \$16.29 664 1.080 +1 12/10/18 Guotent OTNT AB* \$13.065.000 2.010.000 2 BO,DIR 12/11/18 \$10.485 \$5.20 457 540 +1 12/12/18 Normark NMRK B \$5.074.133 1.003.702 2.0E0,DIR 12/12/18 \$10.68 \$13.550 14.447 1.020 +1 11/11/18 Nors & Frag FF B \$7.148.87 \$2.786 100 12/12/18 \$1.68 \$1.350 1.447 1.020 +1 10/11/18 Barings BDC BBC ABL \$3.066.23 40.00 9 BO.DIR FC 12/11/18 \$1.88 \$8.60 41.21 1.560 +1 10/03/18 GMS GMS B														
 +1 12/14/18 Ra Pharm RARX JB⁺ \$41,200.008 2,658.065 3 BO,DIR 12/14/18 \$15.50 \$16.29 664 1,080 +1 12/13/18 Monawk Ind MHK B \$14,222,645 119,346 2 DIR 12/13/18 \$1111,17 \$115.09 \$6,680 1,140 +1 12/1016 Quolent CITNT B⁺ \$32,056,000 2,010,000 2 BO,DIR 12/12/18 \$5,05 \$7,20 41 10/14/18 Fluidging FLDM B⁺ \$7,202,462 1,085,033 1 BO 12/12/18 \$130.08 \$135.50 14,447 1,020 +1 12/14/18 Fluidging FLDM B⁺ \$7,202,462 1,035,033 1 BO 12/11/18 \$13.68 \$136.08 \$135.50 44,447 1,020 +1 10/13/18 Barings BDC BBDC AB, \$3,008,623 304,500 2 BO,DIR,FO 12/11/18 \$13.88 \$19.5 244 1,550 41 10/31/18 GMS GMS S 1,045,943 118,544 1 BO 12/11/18 \$13.88 \$13.02 1,456 14,500 101,445 14,50 12/11/18 13.88 13.02 14,56 14.500 101,111/16 GMS 31.424,690 110,307.62 2,600,000 2,600,000 4,00,012 12/11/18 13.88 13.02 14,561 14.561 14.561 14.561 14.561														
 +1 12/13/18 Mohawk ind M+K B \$14,222,645 119,346 2 DIR 12/13/18 S119,17 S118,98 8,680 1,140 +1 12/10/18 Quotent OTNT JB' S10,065,000 2,010,000 2 BO,DIR 12/11/18 S50.0 S7.20 457 540 S10,021,000 2 CEO,DIR 12/12/18 S9.04 S10,021,000 2 CEO,DIR 12/12/18 S10.000 S10,000 2 CEO,DIR 12/12/18 S10.000 S10,000 12/12/18 S10.000 11/11/18 S10.000 S10,000 S10,000 S0,DIR,FO 12/11/18 S10.86 S10,000,02 CD,DIR,FO 12/11/18 S10.86 S10,000,02 CD,DIR,FO 12/11/18 S11.86 S10.86,124 100,000 CD,DIR,FO 12/11/18 S11.86 S10.86,124 100,000 CD,DIR,FO 12/11/18 S11.86 S10.85,124 100,000 CD,DIR,FO 12/11/18 S11.86 S10.85,124 110/31/18 S11.86 S10.85,124 100,000 CD,DIR,FO 12/11/18 S11.88 S10.25 14.50 11/12/178 S11.80 S10.25 14.50 11/12/178 S11.80 S10.25 S11.250 150.00 100 12/11/18 S14.61 S11.250 150.00 100 12/11/18 S14.61 S11.250.00 200<!--</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></td>														
+1 12/10/18 Quotient QTNT JB* \$13,065,000 2,010,000 2 BO,DIR 12/11/18 \$65.0 \$7.20 457 540 +1 10/18/18 hit Hewmark NMRK B \$9,074,133 1,003,792 2 CEO,DIR 12/12/18 \$136.08 \$135.00 14.447 1,020 +1 10/18/18 hit Hewars & Frag FF B \$7,184.867 \$2,789 18 DO 12/12/18 \$136.08 \$135.00 14.447 1,020 +1 10/18/18 hit Hewars & Frag FF B \$7,143.457 2,024.400 9 BO 12/11/18 \$1.66 \$1.57 6650 1,210 +1 10/31/18 Barring BDC BBDC AB,B \$3,008.623 304.500 2 BO,DIR,FO 12/13/18 \$14.64 \$1.57 6650 1,210 +1 10/31/18 Barring BDC BBDC AB,B \$1,054,11 1 BO 12/11/18 \$1,464 \$1.57 450 450 +1 11/16/18 Aure Continent									•					
+1 12/12/18 NMRK B \$9,074,133 1,003,792 2 CEO,DIR 12/12/18 \$9,04 \$9,07 2.289 5.270 +1 10/16/18 ItT lievors & Frag IFF B \$7,148,657 52,708 1 BO 12/12/18 \$50.08 \$7,83.969 610 +1 12/14/18 Building FLD J87,88 \$7,024,042 J80,050 2 BO,DIR,FO 12/12/18 \$57,88 \$7,83.969 610 +1 10/3/18 GMX GMX B \$1,654,141 106,000 2 BO,DIR,FO 12/13/18 \$1,648 \$1,67 65,71 65,76 57,76 66,76 +1 10/3/18 GMX GMX B \$1,645,943 118,546 1 BO 12/17/18 Bia8 \$1,422 20 80 83,07 42,80 38,30 +1 11/16/18 Conda Conda S1,424,660 97,466 1 BO 12/17/18 Bia8 83,02														
+1 10/18/18 IFF B \$7,184,857 52,786 1 BO 12/12/18 \$136.08 \$135.50 14,447 1.020 +1 12/14/18 Fluidigm FLDM BP, S7,020,462 1.035.033 1 BO 12/12/18 \$1.78 \$57.78 369 610 +1 10/19/18 AVEO B \$4,134,927 2,084,400 9 BO 12/11/18 \$1.89 \$1.95 244 1.550 +1 10/31/18 GMS GMS B \$1.659,124 1060.00 2 BO 12/11/18 \$1.648 \$1.320 1.456 1.200 +1 11/19/18 SUMA XOMA B \$1.424,600 97.466 1 BO 12/11/18 \$1.432 120 80 +1 11/19/18 XOMA S \$1.424,700 1.000 1 DIR 12/7/18 \$8.08 \$87.74 2.300 3.035 55 10 +1 11/11/18 Kolde														
+1 12/14/18 FLDM JB*,B \$7,020,462 1,035,033 1 BO 12/12/18 \$6,78 \$7,78 369 610 +1 11/19/18 AVEO B \$4,134,927 2,084,400 9 BO 12/11/18 \$1,98 \$1,95 244 1,550 +1 10/3/18 Barings BDC BBDC AB,B \$3,008,623 304,500 2 BO,DIR,FO 12/11/18 \$1,68 \$1,68 \$1,64													,	
+1 11/19/18 AVEO B \$4,134,927 2,084,400 9 BO 12/11/18 \$1.95 244 1,550 +1 10/3/18 Barings BDC BBDC AB,B \$3,008,623 304,500 2 DUR 12/12/18 \$15.64 \$15.78 650 1,210 +1 10/3/18 GMS B \$1,645,943 110,546 1 BO 12/11/18 \$1.848 \$1.424 61 140 12/12/18 \$1.64 \$1.424 310 50 1,456 1.450 141 111/19/18 \$1.438 \$1.321 50 1.210 12/11/18 \$1.423 120 800 1.211/18 \$1.423 120 800 1.211/17 \$1.461 \$1.423 120 800 \$1.211/17 \$1.461 \$1.423 120 1.465 1.450 \$1.210 \$1.41 \$1.111/18 \$1.321 1 BO 12/11/18 \$1.880 \$1.81 \$1.80 \$1.321 \$1.80 \$1.211/18 \$1.800 \$1.211/18														
+1 10/3/18 Barings BDC BBDC AB,B \$3,008,623 304,500 2 BO,DIR,FO 12/13/18 \$9,88 \$9,60 492 310 +1 10/3/118 GMS B \$1,658,124 106,000 2 DIR 12/12/18 \$1,644 \$15,74 65,01 1,456 1,452 1,456 1,452 1,456 1,452 1,456 1,452 1,566			· ·											
+1 10/31/18 GMS GMS B \$1,658,124 106,000 2 DIR 12/12/18 \$1,574 \$1,578 650 1.210 +1 11/12/118 Sunrun RUN B \$1,645,943 118,546 1 BO 12/11/18 \$11,612 142 120 80 +1 11/19/18 Sunda S1,424,690 97,486 1 BO 12/17/18 \$80.68 \$87.74 120 80 +1 12/11/18 Liked Continental UAL B \$1,321,250 15,000 1 DIR 12/7/18 \$80.68 \$87.74 23,906 3,830 +1 12/11/18 Roge Global Value Tr RGT B \$1,457,12 113,600 2 DIR 12/14/18 \$49.97 94 50 +1 11/21/18 Roge Global Value Tr RGT B \$1,455,377 22,332 2 DIR/VP 12/14/18 \$41.00 1,42/14 \$1,421 1,042 1,00 12/14/18 \$41.01 </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></td>									-					
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+1 11/5/18 Spartan Motors SPAR B \$354,815 47,360 2 DIR 12/7/18 \$7.49 \$7.18 253 280 +1 11/13/18 Landmark Infra LP LMRK B \$354,815 47,360 2 DIR 12/7/18 \$7.49 \$7.18 253 280 +1 11/13/18 Landmark Infra LP LMRK B \$354,059 26,169 1 BO,DIR 12/10/18 \$13.53 \$12.97 328 70 +1 12/13/18 RTI Surgical RTIX B \$327,764 78,701 2 CAO,CEO,CFO 12/12/18 \$4.16 \$4.15 263 170 +1 12/13/18 Chesapeake Energy CHK B \$291,500 110,000 1 DIR 12/11/18 \$2.65 \$2.33 2,129 40,520 +1 12/11/18 Autro B \$273,081 132,029 2 BO,DIR 12/7/18 \$2.07 \$2.33 30 140 +1 12/14/18 Open Bank OPBK B \$268,200 30,000 <td></td> <td>1</td> <td>12/11/18 Huntsman</td> <td>HUN</td> <td>В</td> <td>\$363,595</td> <td>19,500</td> <td>3</td> <td>CB,CEO,CFO,DIR,GC</td> <td>12/7/18</td> <td>\$18.65</td> <td>\$18.30</td> <td>4,361</td> <td>4,110</td>		1	12/11/18 Huntsman	HUN	В	\$363,595	19,500	3	CB,CEO,CFO,DIR,GC	12/7/18	\$18.65	\$18.30	4,361	4,110
+1 11/13/18 Landmark Infra LP LMRK B \$354,059 26,169 1 BO,DIR 12/10/18 \$13.53 \$12.97 328 70 +1 12/13/18 RTI Surgical RTIX B \$327,764 78,701 2 CAO,CEO,CFO 12/12/18 \$4.16 \$4.15 263 170 +1 12/13/18 Chesapeake Energy CHK B \$291,500 110,000 1 DIR 12/11/18 \$2.65 \$2.33 2,129 40,520 +1 12/11/18 Autoweb AUTO B \$273,081 132,029 2 BO,DIR 12/12/18 \$8.94 \$8.77 109 40 +1 12/14/18 Open Bank OPBK B \$268,200 30,000 1 DIR 12/12/18 \$8.94 \$8.77 109 40		1	11/21/18 Alpha & Omega Semi	AOSL	AB	\$361,534	36,405	1	BO,CEO,DIR	12/10/18	\$9.93	\$10.17	242	100
+1 12/13/18 RTI Surgical RTIX B \$327,764 78,701 2 CAO,CEO,CFO 12/12/18 \$4.16 \$4.15 263 170 +1 12/13/18 RTI Surgical RTIX B \$327,764 78,701 2 CAO,CEO,CFO 12/12/18 \$4.16 \$4.15 263 170 +1 12/13/18 Chesapeake Energy CHK B \$291,500 110,000 1 DIR 12/11/18 \$2.65 \$2.33 2,129 40,520 +1 12/11/18 Autoweb AUTO B \$273,081 132,029 2 BO,DIR 12/17/18 \$2.07 \$2.33 30 140 +1 12/14/18 Open Bank OPBK B \$268,200 30,000 1 DIR 12/12/18 \$8.94 \$8.77 109 40		1	11/5/18 Spartan Motors	SPAR	В	\$354,815	47,360	2	DIR	12/7/18	\$7.49	\$7.18	253	280
+1 12/13/18 Chesapeake Energy CHK B \$291,500 110,000 1 DIR 12/11/18 \$2.65 \$2.33 2,129 40,520 +1 12/11/18 Autoweb AUTO B \$273,081 132,029 2 BO,DIR 12/17/18 \$2.07 \$2.33 30 140 +1 12/14/18 Open Bank OPBK B \$268,200 30,000 1 DIR 12/12/18 \$8.94 \$8.77 109 40		1	11/13/18 Landmark Infra LP	LMRK	В	\$354,059	26,169	1	BO,DIR	12/10/18	\$13.53	\$12.97	328	70
• 1 12/11/18 Autoweb AUTO B \$273,081 132,029 2 BO,DIR 12/17/18 \$2.07 \$2.33 30 140 • +1 12/14/18 Open Bank OPBK B \$268,200 30,000 1 DIR 12/12/18 \$8.94 \$8.77 109 40	0 00 +	1	12/13/18 RTI Surgical	RTIX	В	\$327,764	78,701	2	CAO,CEO,CFO	12/12/18	\$4.16	\$4.15	263	170
• 1 12/14/18 Open Bank OPBK B \$268,200 30,000 1 DIR 12/12/18 \$8.94 \$8.77 109 40	000 +	1	12/13/18 Chesapeake Energy	CHK	В	\$291,500	110,000	1	DIR	12/11/18	\$2.65	\$2.33	2,129	40,520
	0 00 +	1	12/11/18 Autoweb	AUTO	В	\$273,081	132,029	2	BO,DIR	12/7/18	\$2.07	\$2.33	30	140
COC +1 12/12/18 Safeguard Scientifics SFE B \$247,123 26,400 4 CEO,CFO,DIR,PR,VP 12/11/18 \$9.36 \$9.26 191 120	0 00 +	1	12/14/18 Open Bank	OPBK	В	\$268,200	30,000	1	DIR	12/12/18	\$8.94	\$8.77	109	40
	000 +	1	12/12/18 Safeguard Scientifics	SFE	В	\$247,123	26,400	4	CEO,CFO,DIR,PR,VP	12/11/18	\$9.36	\$9.26	191	120

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



InsiderInsights Ratings of Latest Insider Purchases (Continued)

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
Inside	er	Rating		Trans	Purch	Shares			Trans	Purch	Recent	Сар	Ave Vol
Ratino		Date Company	Ticker	Type(s)*	Value		# Ins	iders - Title(s)*	Date	Price	Price	(mm)	(m)
000	+1	12/12/18 Thor Ind	THO	В	\$234,730	4,000	2	DIR	12/11/18	\$58.68	\$53.92	2,847	1,530
000		12/10/18 Trinseo SA	TSE	В	\$218,140	4,500	1	CFO,VP	12/6/18	\$48.48	\$45.42	1,922	550
000		11/20/18 Delphi Tech PLC	DLPH	В	\$204,520	12,500	2	DIR	12/12/18	\$16.36	\$14.56	1,288	1,690
000		12/14/18 Alamo	ALG	B,OB	\$193,647	3,550	2	CFO,DIR,VP	12/14/18	\$54.55	\$76.13	893	70
000		11/16/18 Innodata	INOD	В	\$161,100	90,000	1	BO	12/7/18	\$1.79	\$1.73	45	60
000		11/15/18 Houston Wire & Cable		В	\$160,600	26,595		DIR	12/10/18	\$6.04	\$5.83	96	40
000		12/13/18 Intrepid Potash	IPI	В	\$149,965	50,000	1	BO	12/13/18	\$3.00	\$2.89	379	580
000		11/23/18 US Concrete	USCR	B	\$136,839	3,600	1	DIR	12/6/18	\$38.01	\$33.73	567	400
000		12/11/18 Century Banc	CNBKA	B	\$135,982	1,701	1	BO	12/0/18	\$79.94	\$73.98	267	400
000		12/10/18 Cerecor	CERC	JB*,B	\$135,982	40,556	2	BO,DIR,SO,VP	12/10/18	\$3.35	\$3.32	136	80
000						,							
000		12/12/18 TCG BDC	CGBD	B	\$111,480	7,675	3	CEO,CFO,DIR,TR	12/10/18	\$14.53	\$13.84	866	410
000	+1	12/6/18 Lifetime Brands	LCUT	В	\$108,878	9,058	1	BO	12/7/18	\$12.02	\$11.31	235	20
000		12/10/18 Centerstate Bank	CSFL	B	\$106,850	4,800	2	DIR	12/14/18	\$22.26	\$21.33	2,040	660
000		12/12/18 Sequential Brands	SQBG	B	\$102,830	118,195	1	BO	12/10/18	\$0.87	\$0.80	51	110
000		11/7/18 Heritage Insurance	HRTG	В	\$96,135	6,500	1	DIR	12/10/18	\$14.79	\$14.52	386	150
000		11/19/18 Apple Hospitality Reit	APLE	В	\$77,500	5,000	1	CFO,VP	12/6/18	\$15.50	\$15.70	3,592	1,700
000	+1	10/26/18 Amer Natl Bank	AMNB	В	\$65,880	2,000	1	DIR	12/11/18	\$32.94	\$32.18	280	10
000	+1	12/13/18 Natl Bank	NKSH	В	\$53,368	1,300	3	DIR	12/13/18	\$41.05	\$38.84	270	10
000	+1	12/10/18 Summit Materials	SUM	В	\$52,760	4,000	1	CFO,VP	12/10/18	\$13.19	\$12.46	1,391	2,890
	+0.5	12/10/18 Trinity Ind	TRN	В	\$6,146,365	280,506	1	BO,DIR	12/10/18	\$21.91	\$20.95	3,065	2,340
000	+0.5	12/3/18 Entercom Comms	ETM	В	\$3,911,020	600,000	1	CB,DIR	12/13/18	\$6.52	\$6.38	909	1,020
000	+0.5	9/17/18 Hyster-Yale Materials	HY	AB	\$2,556,014	40,901	16	CB,DIR,O	12/12/18	\$62.49	\$61.64	1,021	50
	+0.5	12/12/18 Achaogen	AKAO	В	\$1,234,194	765,779	1	BO	12/11/18	\$1.61	\$1.62	75	1,140
000	+0.5	12/12/18 Archrock	AROC	B,OE*	\$851,173	128,068	2	CEO,CFO,DIR,PR,VP	12/11/18	\$6.65	\$8.61	1,114	1,080
000	+0.5	12/10/18 Aeglea Bio Therap	AGLE	OB	\$751,816	171,890	1	CEO,DIR,PR	12/7/18	\$4.37	\$7.50	180	100
000	+0.5	12/11/18 Amers Car-Mart	CRMT	В	\$679,469	10,000	1	DIR	12/7/18	\$67.95	\$70.61	478	80
000	+0.5	12/11/18 Synergy CHC	SNYR	JB*	\$673,769	1,225,034	1	BO,CEO,DIR,PR	12/10/18	\$0.55	\$0.20	18	20
000	+0.5	12/14/18 KLX Energy Svs	KLXE	В	\$673,222	27,300	2	DIR,VP	12/12/18	\$24.66	\$23.76	531	340
A00		10/25/18 Odonate Therap	ODT	В	\$607,937	40,000	1	BO,CEO,DIR	12/12/18	\$15.20	\$15.12	406	40
A ~ ~ ~		12/12/18 Synalloy	SYNL	В	\$575,910	36,984	1	BO	12/11/18	\$15.57	\$15.53	138	10
A00		12/11/18 B Riley Finl	RILY	В	\$555,022	32,220	1	BO,CB,CEO,DIR	12/10/18	\$17.23	\$19.23	511	70
A		12/14/18 Alcentra Cap	ABDC	B	\$513,853	74,000	2	PR	12/12/18	\$6.94	\$6.66	90	100
A00		12/11/18 HighPoint Res	HPR	В	\$453,900	155,000	2	C00,00,VP	12/10/18	\$2.93	\$2.58	548	1,670
A		12/11/18 New Mtn Finance	NMFC	B	\$426,893	32,700	3	CAO,CCO,CEO,DIR	12/13/18	\$13.05	\$12.84	977	330
		12/10/18 Tyson Foods	TSN	B	\$400,107		1	DIR	12/6/18	\$58.01	\$55.30	20,191	3,180
A		12/12/18 Talos Energy	TALO	B	\$339,661	17,899		DIR	12/10/18	\$18.98	\$18.11	981	3,180 140
		*/		_									
A A A A		12/12/18 Washington Prime	WPG	B	\$299,667	49,200	1		12/11/18	\$6.09	\$6.15	1,144	2,130
0.00		12/13/18 Daseke	DSKE	B	\$275,665	81,000			12/13/18	\$3.40	\$3.35	216	770
000		12/14/18 Berry Petrol	BRY	B	\$257,700	25,000	2	CEO,COO,DIR,PR,VP	12/13/18	\$10.31	\$10.43	852	560
000		12/10/18 Black Stone Minrls LP	BSM	B	\$248,409	15,300	1	CB,CEO,DIR,PR	12/6/18	\$16.24	\$16.51	3,381	160
000		12/13/18 Hartford Finl Svs	HIG	B	\$207,184	5,000			12/11/18	\$41.44	\$41.27	14,805	3,400
A		11/16/18 Overseas Shipholding	OSG	В	\$196,625	100,000	1	CEO,DIR,PR	12/12/18	\$1.97	\$1.84	156	690
A		12/14/18 Gaming & Leisure Pr	GLPI	В	\$171,350	5,000	1	DIR	12/13/18	\$34.27	\$34.86	7,463	1,800
A00		12/10/18 Vectrus	VEC	AB,B	\$159,129	7,015		DIR,VP	12/13/18	\$22.68	\$21.90	247	80
4	+0.5	12/10/18 Ocular Therapeutix	OCUL	В	\$156,224	27,400	2	0	12/10/18	\$5.70	\$5.33	219	990
A		12/13/18 Majesco	MJCO	В	\$155,750	25,000	1	DIR	12/11/18	\$6.23	\$7.05	259	20
	+0.5	12/14/18 OptiNose	OPTN	В	\$127,533	16,430	2	CEO,DIR	12/13/18	\$7.76	\$8.25	340	330
	+0.5	12/12/18 HCI	HCI	JB*,B	\$107,080	2,000	2	DIR	12/10/18	\$53.54	\$52.68	483	90
000	+0.5	12/13/18 PB Banc	PBBI	В	\$103,875	9,439	2	DIR	12/12/18	\$11.00	\$11.00	84	10
000	+0.5	11/13/18 Amer Finl	AFG	В	\$92,912	1,000	1	DIR	12/12/18	\$92.91	\$91.42	8,160	610

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



InsiderInsights Ratings of Latest Insider Purchases (Continued)

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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Indig Itoms Pland Starcs Itoms Pland <						Total				Latest	Ave.		Mkt	10-Dav
Ring Date Date Pice Pice <t< th=""><th>Inside</th><th>er</th><th>Rating</th><th></th><th>Trans</th><th></th><th>Shares</th><th></th><th></th><th></th><th></th><th>Recent</th><th></th><th>2</th></t<>	Inside	er	Rating		Trans		Shares					Recent		2
■ 0.3 S121418 Web Page WIC 0.8 980.372 10.575 3. CED IB COLORES 2111/11 81.77 57.8 880.3 ● +0.5 11/11/11 BLB Early LLEX B 880.305 52.000 10 12/11/18 81.87 51.80 81.65 11.87 ● +0.5 11/11/18 BLB Early WIC O.E* 580.105 2.870 1 0.00 12/11/18 51.80 51.80 1.80	Rating]*	Date Company	Ticker	Type(s)*	Value	Bought #	# Ins	siders - Title(s)*	Date	Price	Price		(m)
••••••••••••••••••••••••••••••••••••	000	+0.5	12/13/18 IRIDEX	IRIX	В	\$89,321	20,857	2	CB,CEO,DIR	12/12/18	\$4.28	\$4.15	56	50
■ -0.5 124/18 Webs Fago WFC OE* 1200 2.070 1 DR 1211118 \$30.00 \$40.54 210.075 31.320 ■ -0.5 1202161 Laged Pharm LADD OB \$77.760 7.090 1 COD PR 1211118 \$43.00 \$44.20 85.67 65 10 ■ -0.5 1212118 Brid Brid S75.63 7.090 1 COD PR 1211118 \$43.03 \$42.01 85.67 65 20 ■ -0.5 1212118 Part Part Part S75.63 7.090 1 D0 1212118 \$23.01 \$25.67 65 20 ■ -0.5 1212118 Part	000	+0.5	12/14/18 WideOpenWest	WOW	В	\$86,372	10,575	3	CEO,DIR,GC,O,SEC	12/13/18	\$8.17	\$7.98	660	320
0.5 1025/18 Lgund Plarm LGND OIG 579.760 7.989 1 COO.PR 1211218 581.7 513.8 2.509 530 0.5 1021418 RandopB Banc RMDB B 578.014 5.442 1 CEO.DIR,PR 121318 513.8 2.439 2.489 1.680 0.5 1021218 FAT Bends FAT .85 376.002 1.3916 5 DR 1210178 55.39 58.67 65 20 -0.5 1021418 FAT Bends FAT .85 376.002 1.3916 5 DR 1210178 55.31 55.87 65 20 51.17314 MaceBender 52.17 53.8 52.17 53.33 53.22 128 80.0 1.301 50.0 1.21118 53.33 53.22 1.28 80.0 1.302 1.302 1.000 1.21118 53.33 53.22 1.28 80.0 1.21118 53.33 53.22 1.28 80.117 0.000 1.211118 53.34 59	000	+0.5	11/19/18 Lilis Energy	LLEX	В	\$83,000	50,000	1	DIR	12/12/18	\$1.66	\$1.65	119	870
■ 0.05 101/01	000	+0.5	12/4/18 Wells Fargo	WFC	OE*	\$80,100	2,670	1	DIR	12/13/18	\$30.00	\$46.54	219,075	31,320
● 0.6 11/20/18 Corp offee PT T OFC B 975.437 3.162 1 CED.PR 12/13/18 23.33 422.4 2.439 1.060 ● 0.5 11/20/18 Farl Brands FAT .8* 75.002 13.915 5 DIR 12/13/18 52.339 56.27 66.7 68 20 ● 0.5 11/21/18 Funds FAT .8* FA 8.53.00 60.000 1 BO 12/13/18 51.818 21.8 22.1 28.1 22.1 28.1 32.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 10.0 12/13/18 33.33 32.2 12.1 42.1 10.0 12/13/18 43.3 13.00 12.1 12.1 13.0 12.1 13.0 13.0 12.1 12.1 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 1	000	+0.5	10/25/18 Ligand Pharm	LGND	OB	\$79,750	7,999	1	COO,PR	12/12/18	\$9.97	\$136.86	2,909	530
■ ■	000	+0.5	12/14/18 Randolph Banc	RNDB	В	\$78,014	5,342	1	CEO,DIR,PR	12/13/18	\$14.60	\$14.20	85	10
● -0.5 12114/18 Full B 585,450 300,00 2 CEO_CPO_DR_TR_VP 1213/18 52:17 58 80 ● -0.5 1213/18 MaxP B 533,800 600,00 1 BO 1213/18 52:17 58 80 ● -0.5 1213/18 MaxP AMRS B 500,006 11.841 100 1213/18 52:13 53:33 52:22 128 80 90 1213/18 51:14 661:23 67:13	000	+0.5	11/20/18 Corp office Pr Tr	OFC	В	\$75,437	3,152	1	CEO,PR	12/13/18	\$23.93	\$22.41	2,439	1,060
● +0.5 12/13/18 MusclePharm MSLP B \$53,800 60,000 1 BO 12/12/18 \$0.90 \$40.80 14 10 ● +0.5 11/27/18 Murris State GAMS B \$50,006 1 BO 12/12/18 \$44,019 24 1,30 ● +0.5 12/12/18 Real PMAR RET S<10/75/16/20 322.478 3 BOD 12/12/18 S54,1 S54,97 720.00 +0 12/12/18 Real PMAR RET S<10/75/16/20 322.478 3 BOD 12/12/18 S54,1 S54,97 720.00 +0 12/4/18 Vormado Rily Tr VNO OE* \$10.144.45 413.701 1 CBC/OLPR 12/13/18 S18.08 S34.062 720.00 150.00 22.471.01 50.01 50.01 100.01 12/13/18 S18.08 74.020 +0 12/14/18 Reamone Sight Medical EVEX B4 33.33.46.42 160.00 100 <td>000</td> <td>+0.5</td> <td>11/29/18 FAT Brands</td> <td>FAT</td> <td>JB*</td> <td>\$75,002</td> <td>13,915</td> <td>5</td> <td>DIR</td> <td>12/10/18</td> <td>\$5.39</td> <td>\$5.67</td> <td>65</td> <td>20</td>	000	+0.5	11/29/18 FAT Brands	FAT	JB*	\$75,002	13,915	5	DIR	12/10/18	\$5.39	\$5.67	65	20
● 0.5 11/21/18 AMRS B 500/18 11/21/16 12/16/16 51/21/17 51/21/17 51/21/17 51/21/17 51/21/17 51/21/17 51/21/17 51/21/17 51/21/17 51/21/17 51/21/17 51/21/17 51/21/17 51/21/17 51/21/17 51/21/17 51/21/21 </td <td>000</td> <td>+0.5</td> <td>12/14/18 Full House Resorts</td> <td>FLL</td> <td>В</td> <td>\$65,450</td> <td>30,000</td> <td>2</td> <td>CEO,CFO,DIR,TR,VP</td> <td>12/13/18</td> <td>\$2.18</td> <td>\$2.17</td> <td>58</td> <td>80</td>	000	+0.5	12/14/18 Full House Resorts	FLL	В	\$65,450	30,000	2	CEO,CFO,DIR,TR,VP	12/13/18	\$2.18	\$2.17	58	80
O 100 1100 100 121218 53.3 52.2 120 120 O 0.0 1100 1100 121218 53.3 53.2 120 120 O 0.0 121218 State 180 121218 53.3 53.2 120 120 121218 53.3 53.2 120 121218 53.3 53.2 120 121218 53.3 53.2 121 53.4 130 130 130 130 121218 53.14 55.2 130 130 121 131 55.2 130	000	+0.5	12/13/18 MusclePharm	MSLP	В	\$53,800	60,000	1	во	12/12/18	\$0.90	\$0.90	14	10
O O	000	+0.5	11/27/18 Amyris	AMRS	В	\$50,058	11,834	1	COO	12/13/18	\$4.23	\$4.09	294	1,350
••• 12/12/18 Reata Pharm RETA B \$19,751,502 332,478 3 BO,DR 12/12/18 \$59,47 1,767 200 •• 12/4/18 Vormado RRy Tr VNO OC \$10,014,445 413,701 1 CB,ODR/R 12/10/16 \$24,62 \$68,38 13,008 1.001 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/118 1.011/18 1.011/18 1.011/18 1.011/118 1.011/118 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18	000	+0.5	11/9/18 StealthGas	GASS	В	\$48,018	14,400	1	BO	12/12/18	\$3.33	\$3.22	128	
••• 12/12/18 Reata Pharm RETA B \$19,751,502 332,478 3 BO,DR 12/12/18 \$59,47 1,767 200 •• 12/4/18 Vormado RRy Tr VNO OC \$10,014,445 413,701 1 CB,ODR/R 12/10/16 \$24,62 \$68,38 13,008 1.001 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/118 1.011/18 1.011/18 1.011/18 1.011/118 1.011/118 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18 1.011/18	000	+0	12/10/18 W R Grace	GRA	В	\$45,173,182	738,847	1	во	12/13/18	\$61.14	\$61.22	4,101	700
C +0 12/4/18 Vondo Rily Tr VNO OE* \$10,144,445 413,701 1 CB_CEO,DR 12/10/18 \$24,52 \$68,36 13,008 1,160 0 10/14/16 Regeneron Pharm REON OE* \$52,550,000 1 CEO,DR,PR 12/13/18 \$16,80 \$3417 40,527 810 0 10/12/18 NET B \$3,394,642 160,140 1 BO 12/13/18 \$21,20 \$19,83 717 210 0 10/14/18 Externa EX* \$2,399,000 3,275,100 1 BO,DR 12/11/18 \$21,42 \$24,493 \$31,81 120 0 10/11/18 Store PA B \$1,697,437 \$39,435 1 BO,CEO,DIR 12/11/18 \$27,21 \$24,80 \$20 \$280 \$40 \$25,72 \$22,82 \$280 \$40 \$1,271/18 \$57,22 \$27,10 \$10,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$1,00 \$	000			RETA	В			3	BO,DIR					200
C 10 12/14/18 Regeneron Pharm REGN OE* \$\$2,250,000 312,500 1 CEO,DR,PR 12/13/18 \$\$16.80 \$\$381.17 40.527 810 0 10/2/18 Naf Fuel Gas Co NFG OE* \$\$4,780.800 160,000 2 CT,DIR 12/12/18 \$\$20.80 \$\$55.87 4.803 \$\$20 0 10/14/18 Escond Sight Medical EYES #B* \$\$2.999.992 3.275,100 1 BO,DIR 12/12/18 \$\$2.92.80 \$\$1.87 \$\$2.495 1.318 120 0 +0 12/14/18 Second REV B \$\$1.897,437 339.451 1 BO,CEC,DIR 12/13/18 \$\$2.00 \$\$2.38 \$\$28 740 0 11/17/18 Der Finces Rest DFRG B \$1.685,474 70.848 1 CEO,DIR 12/13/18 \$8.46 \$5.00 102 12/14/18 \$8.46 \$5.00 102 1.380 0 112/11/16 Escondeline Immical ENM	000	+0	12/4/18 Vornado Rity Tr		OE*								,	
C +0 10/2/18 Nati Fuel Gas Co NFG OE' \$4,780,800 160,000 2 CT.DIR 12/12/18 \$29.88 \$55.87 4,803 520 0 +0 11/14/18 Externan EXTN B \$32,959,000 180,DIR 12/12/18 \$80.2 \$80.91 67 1.050 +0 12/14/18 Genodi Sight Medical EVES JB* \$2,999,902 3275,100 190,DIR 12/11/18 \$24.21 \$24.95 1.318 120 +0 12/13/18 Valero Energy V.O B \$1,816,375 25,000 1 DIR 12/11/18 \$50 \$3.72 442 1,790 +0 12/11/18 Nethode Electr MEI B \$1,655,417 70.448 1 CEO,DIR 12/11/18 \$50 \$3.72 442 1,790 +0 12/11/18 DEFrictoos Rest DFR B \$1,305,044 636,197 180 12/12/18 \$51,350 10,011 1,750	000													
C +0 11/14/18 EXTN B \$3,394,642 160,140 1 BO 12/13/18 \$21.20 \$19.83 717 210 0 0 12/14/18 Becond Sight Medical EVES JB* \$2,399,999 3.275,100 1 BO,DIR 12/11/18 S2421 \$2449 1.318 1.318 0 +0 12/14/18 Valero Energy VLO B \$1,818,375 25,000 1 DIR 12/11/18 S2421 \$2449 1.318 1.338 0 +0 12/14/18 Vangtze River Port YRW B \$1,897,437 339,435 1 BO,CEDUR 12/11/18 \$5.00 \$3.72 642 1.700 0 +0 12/11/18 Bethode Electr MEI B \$1,895,474 70.848 1 CEO,DIR 12/11/18 \$2.05 \$2.05 102 1.830 0 12/11/18 Bethode Electr MEI B \$1,805,644 62,00 12/11/18 S2.05 <td>000</td> <td></td> <td>•</td> <td></td>	000		•											
O 12/14/18 Second Sight Medical EYES JB* \$2,999,992 3,275,100 1 BO,DIR 12/12/18 \$0.92 \$0.91 67 1.050 0 12/10/18 Revion REV B \$2,329,203 96,191 1 BO,DIR 12/11/18 \$24.495 1.318 120 0 12/14/18 Valuero Energy VLO B \$1,818,375 25,000 1 DIR 12/11/18 \$72.44 \$73.30 31,102 5,330 0 12/14/18 Walero Energy VLO B \$1,867,437 334,435 1 BO,CO,IR 12/13/18 \$5.60 21.7 790 0 12/11/18 Testreet TST B \$1,305,084 636,197 1 BO 12/12/18 \$6.40 \$6.50 21.7 790 0 12/10/18 Eastran Chernical EMN B \$988,335 15,500 1 DIR 12/17/18 \$6.37 15.26 \$71.520 \$71.520 <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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••• 12/10/18 EMN B \$988,335 13,500 1 DIR 12/7/18 \$73.21 \$71.50 10,013 1,750 ••• 12/12/18 Amkor Tech AMKR B \$949,000 150,000 1 CEO,DIR,PR 12/11/18 \$63.3 \$63.7 1,526 970 ••• 11/12/18 Brong Rel BPR B \$627,500 50.00 1 O 12/10/18 \$16.44 2,093 3,240 ••• 12/10/18 Renasant RNST B \$823,743 25,000 1 VP 12/10/18 \$1.94 \$1.39 14.89 950 ••• 12/14/18 Carport EAK B \$61,640 61,000 1 BO 12/13/18 \$10.45 1.850 1.865 1.860 ••• 10/13/18 Storta Storta<	000													
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0 12/11/18 Brookfield Prop Reit BPR B S827,500 50,000 1 O 12/10/18 \$16,55 \$16,44 2,093 3,240 0 12/10/18 Reserves LGCY B \$745,118 383,751 1 BO 12/10/18 \$1.94 \$1.39 148 950 0 12/10/18 Reserves LGCY B \$745,118 383,751 1 BO 12/10/18 \$1.04 \$1.07 1,824 280 0 12/10/18 Reserves LGCY B \$745,118 383,751 1 BO 12/13/18 \$1.04 \$1.075 177 20 0 12/13/18 Redin S67 \$6.68 1 BO 12/13/18 \$19.23 351 300 0 12/13/18 Brightview BV B \$339,000 30,000 2 CEO,DIR,O 12/14/18 \$1.04 \$4.00 \$3.3.00 50,000 1 GCL,DIR,PR 12/14/18 \$3	000													
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10 12/10/18 Legacy Reserves LGCY B Status 11 12/10/18 \$1.94 \$1.94 1201 0 12/10/18 Legacy Reserves LGCY B \$745,118 383,751 1 BO 12/10/18 \$1.94 \$1.39 144 950 +0 12/14/18 Cumulus Media CMLS B \$612,640 61,000 1 BO 12/13/18 \$10.04 \$10.75 177 20 +0 11/16/18 Ellurian TELL B \$591,840 87,680 1 DIR 12/13/18 \$10.75 \$10.80 1,128 650 +0 12/13/18 Birghtview BV B \$333,000 50,000 1 GC,DIR,OR 12/14/18 \$11.30 \$10.80 1,128 650 +0 12/13/18 Micron Tech MU OE* \$330,000 10,000 1 CC,DIR,PR 12/14/18 \$30.42 274 20 +0 11/14/18 Metropoli														
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+0 12/13/18 Micron Tech MU OE* \$333,000 50,000 1 GC,LO,SEC,VP 12/12/18 \$6.66 \$34.20 38,307 30,830 +0 11/15/18 Metropolitan Bank MCB OE* \$300,000 10,000 1 CEO,DIR,PR 12/14/18 \$30.00 \$33.42 274 20 +0 12/14/18 Seachange Inti SEAC B \$297,145 222,463 1 BO 12/13/18 \$1.34 \$1.34 48 400 +0 11/2/18 Chicken Soup for Soul CSSE B \$271,996 33,551 1 BO 12/17/18 \$8.11 \$8.94 105 30 +0 11/14/18 Aerpio Pharm ARPO B \$248,582 120,000 1 BO, DIR 12/10/18 \$4.50 \$5.04 43 20 +0 12/10/18 Goifer CNFR B \$229,500 51,000 1 DIR 12/13/18 \$50.34 \$47.68 1,453 <td>000</td> <td></td>	000													
+0 11/15/18 Metropolitan Bank MCB OE* \$300,000 10,000 1 CEO,DIR,PR 12/14/18 \$30.00 \$33.42 274 20 +0 12/14/18 SeaChange Intl SEAC B \$297,145 222,463 1 BO 12/13/18 \$1.34 \$1.34 48 400 +0 11/2/18 Chicken Soup for Soul CSSE B \$271,996 33,551 1 BO 12/7/18 \$8.11 \$8.94 105 30 +0 11/14/18 Aerpio Pharm ARPO B \$248,582 120,000 1 BO,DIR 12/14/18 \$2.07 \$2.04 83 60 +0 12/10/18 Confer CNFR B \$222,014 4.470 3 DIR,LO,VCB 12/13/18 \$5.04 43 20 +0 12/17/18 Haynes Inti HAYN OE*,OB \$215,337 12,084 3 SO,VP 12/14/18 \$17.82 \$28.33 354 80	000						,	2						
Ho Ho<	000	+0	12/13/18 Micron Tech				50,000	1	GC,LO,SEC,VP					
Harting of the first intervention Description Description <thdescription< th=""></thdescription<>								1						
Horizon Harrison Horizon <		+0	12/14/18 SeaChange Intl	SEAC			222,463	1	BO		\$1.34	\$1.34	48	400
Horizon Control Control <t< td=""><td></td><td></td><td>•</td><td>CSSE</td><td></td><td></td><td>33,551</td><td>1</td><td>BO</td><td>12/7/18</td><td>\$8.11</td><td>\$8.94</td><td>105</td><td>30</td></t<>			•	CSSE			33,551	1	BO	12/7/18	\$8.11	\$8.94	105	30
Horizon Horizon <t< td=""><td></td><td>+0</td><td>11/14/18 Aerpio Pharm</td><td>ARPO</td><td>В</td><td>\$248,582</td><td>120,000</td><td>1</td><td>BO,DIR</td><td>12/14/18</td><td>\$2.07</td><td>\$2.04</td><td>83</td><td>60</td></t<>		+0	11/14/18 Aerpio Pharm	ARPO	В	\$248,582	120,000	1	BO,DIR	12/14/18	\$2.07	\$2.04	83	60
Horizontal Harrisontal		+0	12/10/18 Conifer	CNFR	В	\$229,500	51,000	1	DIR	12/10/18	\$4.50	\$5.04	43	20
+0 12/12/18 Hilton Grand Vacations HGV B \$199,753 7,000 1 DIR 12/10/18 \$28.54 \$28.12 2,725 1,470 +0 12/12/18 Hilton Grand Vacations HGV B \$199,753 7,000 1 DIR 12/10/18 \$28.54 \$28.12 2,725 1,470 +0 12/12/18 Amer Woodmark AMWD B \$187,930 3,100 2 CFO,DIR,PR,VP 12/11/18 \$60.62 \$58.65 1,013 230 +0 12/13/18 Air Lease AL B \$174,410 5,000 1 CB,DIR 12/14/18 \$34.88 \$33.28 3,692 1,040 +0 12/10/18 Luther Burbank LBC B \$174,384 17,600 2 BO,DIR 12/12/18 \$9.91 \$8.94 506 110 +0 12/10/18 Jacobs Engineering JEC OB \$163,840 4,000 1 DIR 12/6/18 \$40.96 \$58.70 8,355 1,850 +0 12/10/18 Comfort Sys USA <t< td=""><td></td><td>+0</td><td>12/13/18 Independent Bank</td><td>IBTX</td><td>В</td><td>\$225,014</td><td>4,470</td><td>3</td><td>DIR,LO,VCB</td><td>12/13/18</td><td>\$50.34</td><td>\$47.68</td><td>1,453</td><td>260</td></t<>		+0	12/13/18 Independent Bank	IBTX	В	\$225,014	4,470	3	DIR,LO,VCB	12/13/18	\$50.34	\$47.68	1,453	260
+0 12/12/18 Amer Woodmark AMWD B \$187,930 3,100 2 CFO,DIR,PR,VP 12/11/18 \$60.62 \$58.65 1,013 230 +0 12/13/18 Air Lease AL B \$174,410 5,000 1 CB,DIR 12/14/18 \$34.88 \$33.28 3,692 1,040 +0 12/10/18 Luther Burbank LBC B \$174,384 17,600 2 BO,DIR 12/12/18 \$9.91 \$8.94 506 110 +0 12/10/18 Luther Burbank LBC B \$174,384 17,600 2 BO,DIR 12/12/18 \$9.91 \$8.94 506 110 +0 12/10/18 Jacobs Engineering JEC OB \$163,840 4,000 1 DIR 12/6/18 \$40.96 \$58.70 8,355 1,850 +0 12/10/18 Comfort Sys USA FIX B \$162,925 3,500 1 CB,DIR 12/7/18 \$46.55 \$45.08 1,675 260 +0 11/20/18 TransAtlantic	000	+0	12/7/18 Haynes Intl	HAYN	OE*,OB	\$215,337	12,084	3	SO,VP	12/14/18	\$17.82	\$28.33	354	80
+0 12/13/18 Air Lease AL B \$174,410 5,000 1 CB,DIR 12/14/18 \$34.88 \$33.28 3,692 1,040 +0 12/10/18 Air Lease AL B \$174,410 5,000 1 CB,DIR 12/14/18 \$34.88 \$33.28 3,692 1,040 +0 12/10/18 Luther Burbank LBC B \$174,384 17,600 2 BO,DIR 12/12/18 \$9.91 \$8.94 506 110 +0 12/10/18 Jacobs Engineering JEC OB \$163,840 4,000 1 DIR 12/6/18 \$40.96 \$58.70 8,355 1,850 +0 12/10/18 Comfort Sys USA FIX B \$162,925 3,500 1 CB,DIR 12/17/18 \$46.55 \$45.08 1,675 260 +0 11/20/18 TransAtlantic Petrol TAT B \$132,901 130,743 1 BO,CEO,DIR 12/13/18 \$1.02 \$1.04 53 80		+0	12/12/18 Hilton Grand Vacations	6 HGV	В	\$199,753	7,000	1	DIR	12/10/18	\$28.54	\$28.12	2,725	1,470
+0 12/10/18 Luther Burbank LBC B \$174,384 17,600 2 BO,DIR 12/12/18 \$9.91 \$8.94 506 110 +0 12/10/18 Luther Burbank LBC B \$174,384 17,600 2 BO,DIR 12/12/18 \$9.91 \$8.94 506 110 +0 12/10/18 Jacobs Engineering JEC OB \$163,840 4,000 1 DIR 12/6/18 \$40.96 \$58.70 8,355 1,850 +0 12/10/18 Comfort Sys USA FIX B \$162,925 3,500 1 CB,DIR 12/17/18 \$46.55 \$45.08 1,675 260 +0 11/20/18 TransAtlantic Petrol TAT B \$132,901 130,743 1 BO,CEO,DIR 12/13/18 \$1.02 \$1.04 53 80		+0	12/12/18 Amer Woodmark	AMWD	В	\$187,930	3,100	2	CFO,DIR,PR,VP	12/11/18	\$60.62	\$58.65	1,013	230
+0 12/10/18 Jacobs Engineering JEC OB \$163,840 4,000 1 DIR 12/6/18 \$40.96 \$58.70 8,355 1,850 +0 12/10/18 Comfort Sys USA FIX B \$162,925 3,500 1 CB,DIR 12/7/18 \$46.55 \$45.08 1,675 260 +0 11/20/18 TransAtlantic Petrol TAT B \$132,901 130,743 1 BO,CEO,DIR 12/13/18 \$1.02 \$1.04 53 80	000	+0	12/13/18 Air Lease	AL	В	\$174,410	5,000	1	CB,DIR	12/14/18	\$34.88	\$33.28	3,692	1,040
••• 12/10/18 Comfort Sys USA FIX B \$162,925 3,500 1 CB,DIR 12/7/18 \$46.55 \$45.08 1,675 260 ••• 11/20/18 TransAtlantic Petrol TAT B \$132,901 130,743 1 BO,CEO,DIR 12/13/18 \$1.02 \$1.04 53 80	000	+0	12/10/18 Luther Burbank	LBC	В	\$174,384	17,600	2	BO,DIR	12/12/18	\$9.91	\$8.94	506	110
••••••••••••••••••••••••••••••••••••	000	+0	12/10/18 Jacobs Engineering	JEC	OB	\$163,840	4,000	1	DIR	12/6/18	\$40.96	\$58.70	8,355	1,850
	000	+0	12/10/18 Comfort Sys USA	FIX	В	\$162,925	3,500	1	CB,DIR	12/7/18	\$46.55	\$45.08	1,675	260
OOO +0 11/28/18 Catchmark Timber Tr CTT B \$119,600 15,000 3 DIR,VP 12/13/18 \$7.97 \$7.88 386 470	000	+0	11/20/18 TransAtlantic Petrol	TAT	В	\$132,901	130,743	1	BO,CEO,DIR	12/13/18	\$1.02	\$1.04	53	80
	000	+0	11/28/18 Catchmark Timber Tr	СТТ	В	\$119,600	15,000	3	DIR,VP	12/13/18	\$7.97	\$7.88	386	470

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

InsiderInsights Ratings of Latest Insider Purchases (Continued)

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	Thelese	Trans	Purch	Shares	// 1		Trans	Purch	Recent	Cap	Ave Vol
Rating*	_	Date Company	Ticker	Type(s)*	Value	<u> </u>		siders - Title(s)*	Date	Price	Price	(mm)	(m)
000 +(12/11/18 Assured Guaranty	AGO	OB	\$117,249	6,723	1		12/10/18	\$17.44	\$38.32	4,049	600
000 +(12/13/18 Falcon Minerals	FLMN	В	\$115,750	15,000	1	DIR	12/12/18	\$7.72	\$7.35	631	530
000 +(ÿ	SLB	OB	\$113,535	3,000	1		12/11/18	\$37.85	\$39.10	54,146	16,210
000 +(12/14/18 Berkshire Hills Banc	BHLB	В	\$113,433	4,000	1	DIR	12/14/18	\$28.36	\$28.07	1,275	420
0000 +(12/11/18 Sierra Oncology	SRRA	В	\$108,240	66,000	1	DIR	12/10/18	\$1.64	\$1.40	104	480
0000 +(12/10/18 Insteel Ind	IIIN	В	\$104,160	4,000	1	DIR	12/7/18	\$26.04	\$24.67	474	100
	0	12/14/18 Lannett	LCI	В	\$103,900	20,000	2	DIR	12/13/18	\$5.20	\$4.85	191	1,550
000 +(0	10/30/18 General Dynamics	GD	В	\$100,585	600	1	DIR	12/7/18	\$167.64	\$168.97	50,040	2,160
000 0)	12/4/18 Seagate Tech PLC	STX	В	\$16,244,301	400,000	1	DIR	12/7/18	\$40.61	\$38.55	11,033	4,100
000 0)	12/11/18 Equity Res	EQR	OE*	\$8,742,587	444,463	1	CB,DIR	12/7/18	\$19.67	\$69.94	26,750	2,000
000 0)	11/29/18 Universal Insurance	UVE	OE*	\$8,507,815	391,666	1	CEO,DIR	12/7/18	\$21.72	\$39.61	1,384	240
000 0)	12/10/18 Natl Health Investors	NHI	OE*	\$5,769,871	91,666	2	CAO,CEO,PR	12/7/18	\$62.94	\$79.31	3,349	280
000 0)	12/11/18 Equity Lifestyle Prop	ELS	OB	\$3,770,000	200,000	1	CB,DIR	12/7/18	\$18.85	\$100.99	9,064	470
)	12/13/18 Royal Caribbean	RCL	В	\$1,995,808	18,900	1	CB,CEO,DIR	12/13/18	\$105.60	\$107.09	22,381	1,450
000 0)	11/13/18 E W Scripps Co	SSP	AB	\$1,200,196	70,956	4	BO	12/14/18	\$16.91	\$16.32	1,317	420
000 0)	12/12/18 Cadiz	CDZI	В	\$1,096,680	111,000	1	BO	12/10/18	\$9.88	\$9.27	227	140
000 0)	10/31/18 NovaGold Res	NG	OE*	\$978,000	450,000	1	CEO,DIR,PR	12/13/18	\$2.17	\$3.84	1,242	1,570
000 0)	12/10/18 Toll Brothers	TOL	OE*	\$721,525	33,250	2	DIR	12/12/18	\$21.70	\$32.22	4,748	5,630
000 0)	12/14/18 Boyd Gaming	BYD	OB	\$689,181	46,936	2	BO,CB,CFO,DIR,TR,VF	P 12/14/18	\$14.68	\$23.92	2,684	1,680
000 0)	12/14/18 WillScot	WSC	В	\$597,500	50,000	1	DIR	12/13/18	\$11.95	\$11.39	1,234	620
000 0)	11/14/18 Fair Isaac	FICO	OE*	\$539,850	15,000	1	GC,SEC,VP	12/7/18	\$35.99	\$188.07	5,446	330
000 0)	12/11/18 Wright Medical NV	WMGI	В	\$536,600	20,000	1	DIR	12/10/18	\$26.83	\$27.52	3,442	1,310
000 0)	12/13/18 Genomic Health	GHDX	OB	\$476,438	24,750	1	DIR	12/11/18	\$19.25	\$69.34	2,505	480
000 0)	11/20/18 Energizer	ENR	В	\$460,000	10,000	1	CEO,DIR,PR	12/6/18	\$46.00	\$49.59	2,970	980
000 0		12/4/18 Astronics	ATRO	OE*	\$383,046	134,402	2	CEO,CFO,DIR,FO,PR	12/6/18	\$2.85	\$31.77	1,152	160
000 0)	12/14/18 Allscripts Healthcare	MDRX	В	\$370,867	36,765	2	CEO,DIR	12/12/18	\$10.09	\$10.39	1,815	2,730
000 0)	12/12/18 MSB Finl	MSBF	В	\$314,658	17,900	1	BO,DIR	12/13/18	\$17.58	\$17.60	97	10
000 0		12/13/18 Cloudera	CLDR	OB	\$302,415	122,334	1	CFO	12/11/18	\$2.47	\$12.34	1,894	3,770
000 0)	11/19/18 Williams Industrial Svs	WLMS	JB*,B	\$282,000	130,000	3	BO,DIR	12/11/18	\$2.17	\$2.25	42	20
000 0		11/28/18 LPL Finl	LPLA	OE*	\$273,600	13,500	1	DIR	12/12/18	\$20.27	\$59.09	5,124	800
000 0		12/3/18 Intel	INTC	AB	\$245,993	5,263	1	CEO	12/6/18	\$46.74	\$47.86	218,433	29,960
000 0	-	12/11/18 ID Sys	IDSY	В	\$224,340	37,220	1	BO	12/7/18	\$6.03	\$5.29	96	250
000 0		11/13/18 SIGA Tech	SIGA	OE*	\$208,146	58,965		CFO,VP	12/12/18	\$3.53	\$6.95	558	210
000 0		11/23/18 United States Steel	X	B	\$203,250	10,000	1	CFO,VP	12/13/18	\$20.33	\$20.02	3,549	8,210
0.0.0		11/14/18 Corcept Therap	CORT	OB	\$189,206	70,000	1		12/13/18	\$2.70	\$16.11	1,860	2,840
000		11/13/18 NCS Multistage	NCSM	B	\$186,848	29,608		CFO,DIR	12/13/18	\$6.31	\$6.51	293	160
000		12/11/18 Byline Banc	BY	B	\$186,244			CEO.DIR.PR	12/13/18	\$0.31	\$18.14	659	80
000 0		11/2/18 Affiliated Managers	AMG	OB	\$180,244	2,034		DIR	12/14/18	\$90.22	\$95.51	5,031	870
000													
		12/11/18 Kroger Co	KR	OE*	\$169,910	13,000	1		12/7/18	\$13.07 \$7.57	\$29.55 \$7.47	23,564	9,580
		10/30/18 Pacific Merc Banc	PMBC	B	\$151,340	20,000		CFO,VP	12/13/18	\$7.57 \$17.20	\$7.47 \$17.00	164	60
		12/13/18 Centurylink	CTL	B	\$141,160	8,207	1	DIR	12/11/18	\$17.20	\$17.00	18,371	14,070
000		12/13/18 US Physical Therap	USPH	B	\$132,828	1,200	1	DIR	12/11/18	\$110.69	\$109.27	1,386	110
000		11/28/18 Destination XL	DXLG	B	\$130,173	51,931	1	BO	12/12/18	\$2.51	\$2.27	112	110
0000 0		11/30/18 Boston Priv Finl	BPFH	B	\$119,901	10,560	1	VP	12/12/18	\$11.35	\$11.06	933	680
0000 0		12/13/18 Fastenal	FAST	OB	\$112,500	3,750			12/11/18	\$30.00	\$53.87	15,464	2,770
000 0		12/12/18 MGP Ingredients	MGPI	B	\$111,000	2,000	1	CEO,DIR,PR	12/14/18	\$55.50	\$56.51	953	230
000 0		12/11/18 Camden Natl	CAC	В	\$110,142	3,000	1	DIR	12/11/18	\$36.71	\$36.64	571	30
000 0		12/7/18 Nicolet Bank	NCBS	OE*	\$107,960	4,000	1	CFO	12/10/18	\$26.99	\$50.21	478	10
		11/29/18 Resideo Tech	REZI	В	\$261,681	12,309	2	CFO,O,VP	12/10/18	\$21.26	\$22.53	2,770	1,690
+20	00	12/10/18 Bojangles	BOJA	OE*	\$1,673,688	824,477	3	CB,CEO,CFO,DIR,FO	12/7/18	\$2.03	\$16.04	602	310



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"

				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)
●OO -1	11/19/18 Facebook	FB	AS	\$8,046,601	57,112	2	CAO,COO,DIR	12/10/18	\$140.89	\$144.06	-36%	413,998
●OO -1	10/4/18 Acorda Therap	ACOR	S	\$6,029,891	360,210	1	BO	12/12/18	\$16.74	\$16.18	-48%	770
0 00 -1	12/14/18 TherapMD	TXMD	OS	\$1,787,530	407,310	3	CEO,CFO,DIR	12/13/18	\$4.39	\$3.87	-40%	921
0 00 -1	12/3/18 Forescout Tech	FSCT	OS,AS	\$1,398,166	52,291	4	CEO,CFO,CO,DIR,GC	12/14/18	\$26.74	\$26.29	-34%	1,127
000 -0.5	12/10/18 Keane	FRAC	JS*	\$56,555,952	5,251,249	1	BO	12/6/18	\$10.77	\$8.96	-46%	938
000 -0.5	12/13/18 Macerich Co	MAC	S	\$5,256,593	105,574	1	CEO	12/11/18	\$49.79	\$47.77	-29%	6,738
000 -0.5	12/4/18 AnaptysBio	ANAB	OS	\$4,687,413	65,585	1	CEO,DIR,PR	12/12/18	\$71.47	\$68.46	-47%	1,831
000 -0.5	12/6/18 Arista Networks	ANET	AS	\$2,506,082	11,000	1	CTO,VP	12/10/18	\$227.83	\$220.41	-27%	16,625
000 -0.5	12/13/18 Veritone	VERI	S	\$1,243,539	200,000	1	BO	12/12/18	\$6.22	\$5.67	-78%	110
A	11/21/18 elf Beauty	ELF	OS	\$938,043	86,600	1	CFO,PR	12/10/18	\$10.83	\$9.90	-54%	478
A A A	11/14/18 Qorvo	QRVO	AS	\$303,807	5,000	1	CEO,DIR,PR	12/12/18	\$60.76	\$60.52	-30%	7,559
A A A	11/23/18 Walmart	WMT	S	\$442,903,008	4,721,520	3	BO,DIR	12/12/18	\$93.81	\$91.85	-15%	266,848
0-000	12/6/18 Workday	WDAY	AS	\$50,781,110	314,467	2	BO,DIR,GC,SEC,VP	12/10/18	\$161.48	\$162.03	-7%	35,323
000	11/21/18 Inspire Medical Sys	INSP	 JS*	\$46,279,736	1,230,844	2	DIR	12/10/18	\$37.60	\$41.36	-35%	35,323 947
000	12/12/18 Okta	OKTA	S								-35%	
000				\$40,437,748		1		12/12/18	\$65.20	\$66.81	-14%	7,378
000	11/9/18 Square	SQ TW/TD	AS	\$38,687,720		2	BO,CB,CEO,DIR,PR	12/12/18	\$63.83	\$62.14		25,695
0.0.0	12/6/18 Twitter	TWTR	AS	\$24,824,227		2	CFO,DIR	12/13/18	\$36.07	\$35.87	-25%	27,306
000 -0	12/3/18 Cracker Barrel	CBRL	S	\$22,684,180	129,600	1	BO	12/13/18	\$175.03	\$171.43	-5%	4,120
0-000	12/13/18 Illinois Tool Works	ITW	OS	\$22,308,993	167,621	2	CB,CEO,CFO,DIR,VP	12/12/18	\$133.09	\$131.04	-26%	43,479
0-000	12/10/18 Zuora	ZUO	S,AS	\$15,685,433	842,070	3	DIR,GC,PR,SEC,VP	12/12/18	\$18.63	\$18.24	-50%	1,979
0-000	11/14/18 RealPage	RP	AS	\$13,218,484	255,326	2	BO,CB,CEO,DIR,PR	12/12/18	\$51.77	\$48.11	-22%	4,518
	11/21/18 HMS	HMSY	OS,S	\$9,568,788	277,396	7	CAO,CB,CEO,CFO,DIR	8 12/12/18	\$34.50	\$31.91	-7%	2,678
0-00	12/13/18 Fate Therap	FATE	S	\$8,511,873	507,528	1	DIR	12/12/18	\$16.77	\$15.88	-7%	1,025
0-000	10/16/18 Veeva Sys	VEEV	AS,OS	\$7,821,062	86,419	3	CFO,DIR,GC,SEC,VP	12/12/18	\$90.50	\$91.39	-15%	13,279
0-000	11/9/18 Amphastar Pharm	AMPH	OS,S	\$7,597,962	355,665	4	BO,CEO,DIR	12/13/18	\$21.36	\$20.32	-5%	937
0-000	11/14/18 Grand Canyon Ed	LOPE	AS,OS	\$6,904,670	62,000	4	CEO,CFO,COO,DIR,IO	12/11/18	\$111.37	\$106.43	-15%	5,123
0-00	11/30/18 AbbVie	ABBV	AS	\$6,895,438	76,850	2	CB,CEO,DIR,FO,VP	12/12/18	\$89.73	\$85.61	-29%	128,776
0-00	12/11/18 Synopsys	SNPS	OS,AS	\$6,569,099	73,611	3	CB,CEO,DIR,PR,SO,VF	P 12/10/18	\$89.24	\$87.65	-14%	13,024
000 -0	11/13/18 Palo Alto Networks	PANW	AS	\$6,156,752	34,500	2	CTO,DIR,VP	12/11/18	\$178.46	\$184.03	-26%	17,461
000 -0	12/6/18 Alphabet	GOOG	OS	\$6,090,768	5,688	1	VP	12/12/18	\$1,071	\$1,052	-17%	728,069
000 -0	12/12/18 RingCentral	RNG	AS,S,OS	\$5,131,944	59,874	3	BO,CB,CEO,COO,DIR		\$85.71	\$82.47	-13%	6,625
0-000	11/1/18 Amer Tower	AMT	OS	\$5,047,733	30,463	2	CFO,GC,SEC,VP	12/7/18	\$165.70	\$166.60	-2%	73,385
0-000	12/13/18 Turtle Beach	HEAR	AS	\$5,016,512	289,923	1	BO	12/13/18	\$17.30	\$16.49	-50%	235
000 -0	12/13/18 Proofpoint	PFPT	OS	\$4,750,157	50,000	1	CEO,DIR	12/13/18	\$95.00	\$89.06	-27%	4,867
	11/14/18 Vector	VGR	s	\$4,712,000	400,000	1	DIR	12/7/18	\$11.78	\$10.37	-46%	1,461
000 -0	12/7/18 AutoZone	AZO	OS	\$4,501,994			DIR,GC,SEC,VP			\$871.24	-1%	
000					,			12/14/18	\$884.48			22,268
000	10/17/18 salesforcecom		AS,OS	\$4,420,630	31,749		- ,,, ,			\$137.04	-12%	104,836
000	9/18/18 Floor & Decor	FND	OS	\$4,356,250	140,000	1	DIR	12/6/18	\$31.12	\$26.76	-47%	2,605
000	11/28/18 Loxo Oncology	LOXO	OS	\$4,267,824	31,500	3	CEO,DIR,FO,O,PR,VP			\$138.87	-35%	4,251
0-000		WAT	OS,JS*	\$3,996,817		1	PR,VP	12/11/18		\$188.97	-14%	14,314
0-000	9/18/18 Docusign	DOCU	AS,OS	\$3,923,947	93,624	1	OO,PR	12/12/18	\$41.91	\$42.89	-38%	7,088
0-000	11/14/18 Burlington Stores	BURL	OS	\$3,809,406	24,071	2	CEO,DIR,O,PR	12/10/18	\$158.26	\$158.30	-13%	10,671
0-000	12/4/18 Splunk	SPLK	AS	\$3,793,289	35,416	6	CEO,CTO,DIR,GC,OO	12/12/18	\$107.11	\$105.26	-20%	15,556
-	11/16/18 Clorox Co	CLX	S	\$3,603,921	22,060	2	CAO,CT,VP	12/7/18	\$163.37	\$164.52	-3%	21,001
0-00	12/10/18 Mesa LABS	MLAB	OS,S	\$3,549,378	16,700	2	DIR	12/10/18	\$212.54	\$207.33	-6%	799
0- 000	11/19/18 Morningstar	MORN	AS	\$3,438,167	30,163	1	BO,CB,DIR	12/12/18	\$113.99	\$114.42	-20%	4,881
0- 000	11/15/18 Cabot MicroElectr	CCMP	OS	\$3,311,461	34,473	1	CTO,VP	12/11/18	\$96.06	\$94.32	-22%	2,406
000	11/15/18 AmeriCold Rity Tr	COLD	OS	\$3,245,456		1	HR,VP	12/13/18	\$27.45	\$27.10	-2%	4,007
0- 000	12/4/18 Entergy	ETR	OS	\$3,215,970	35,733	3	COO,GC,SEC,VP	12/12/18	\$90.00	\$89.78	-1%	16,263
A A A	12/12/18 CDW	CDW	AS,OS	\$3,215,838	35,116		DIR,O	12/12/18	\$91.58	\$87.71	-6%	13,155
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InsiderInsights Ratings of Latest Insider Sales (Continued)

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				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	12/12/18 Charles River LABS Int	I CRL	OS	\$3,194,652	25,123	1	CB,CEO,DIR,PR	12/10/18	\$127.16	\$124.96	-8%	6,010
0-000	11/20/18 Semtech	SMTC	OS	\$2,928,901	60,740	1	CEO,DIR,PR	12/12/18	\$48.22	\$46.82	-20%	3,081
0- 000	11/13/18 Eli Lilly & Co	LLY	AS	\$2,822,959	25,000	1	OO,PR,VP	12/10/18	\$112.92	\$111.93	-6%	118,570
0- 000	10/31/18 TPI Composites	TPIC	S,AS	\$2,772,280	105,783	2	DIR	12/13/18	\$26.21	\$24.77	-19%	855
0-000	10/2/18 HP	HPQ	AS	\$2,669,619	116,134	1	CEO,DIR,PR	12/11/18	\$22.99	\$22.01	-15%	34,192
0-000	11/8/18 CME	CME	S	\$2,623,300	13,687	2	DIR,FO	12/12/18	\$191.66	\$187.64	-3%	67,133
0-000	11/30/18 Adv Micro Devices	AMD	AS	\$2,616,250	125,000	1	CEO,DIR,PR	12/6/18	\$20.93	\$19.90	-39%	19,888
0-000	12/6/18 Mongodb	MDB	OS,AS	\$2,609,849	29,000	2	AO,DIR	12/12/18	\$89.99	\$90.58	-4%	4,855
0- 000	10/25/18 Esterline Tech	ESL	OS	\$2,317,226	19,090	2	CAO,CT,PR,VP	12/7/18	\$121.38	\$121.49	0%	3,583
0- 000	11/20/18 Thermo Fisher Sci	ТМО	OS	\$2,293,775	9,500	1	CFO,VP	12/7/18	\$241.45	\$234.19	-5%	94,279
0- 000	12/10/18 Evertec	EVTC	S	\$2,262,205	84,378	2	VP	12/13/18	\$26.81	\$27.42	-8%	1,995
0- 000	11/6/18 Lennox Intl	LII	AS	\$2,183,062	10,352	5	CB,CEO,CFO,COO,DIF	R 12/13/18	\$210.88	\$213.88	-6%	8,616
0- 000	11/5/18 Lendingtree	TREE	OS	\$1,929,950	8,000	1	DIR	12/6/18	\$241.24	\$231.76	-40%	2,973
0- 000	12/4/18 KEMET	KEM	AS	\$1,898,832	100,000	1	CFO,VP	12/11/18	\$18.99	\$17.38	-36%	998
0- 000	9/11/18 Monolithic Power	MPWR	AS	\$1,802,346	15,000	1	DIR	12/10/18	\$120.16	\$118.62	-21%	5,031
0- 000	10/29/18 TransUnion	TRU	OS	\$1,789,229	29,322	1	VP	12/13/18	\$61.02	\$58.95	-23%	10,923
0- 000	11/5/18 Chemed	CHE	S	\$1,722,691	5,709	1	VP	12/11/18	\$301.75	\$287.88	-10%	4,610
0- 000	12/10/18 Eidos Therap	EIDX	S	\$1,637,930	120,797	1	BO	12/10/18	\$13.56	\$16.27	-46%	598
0- 000	12/6/18 EVO Payments	EVOP	S	\$1,617,961	64,900	2	PR	12/11/18	\$24.93	\$24.05	-19%	1,951
0- 000	11/9/18 CorVel	CRVL	AS	\$1,613,062	24,502	2	BO,CB,DIR	12/13/18	\$65.83	\$64.26	-7%	1,205
0-000	12/12/18 Novocure	NVCR	OS	\$1,563,586	43,781	2	DIR,O	12/12/18	\$35.71	\$35.66	-33%	3,317
0-00	11/21/18 Cornerstone OnD	CSOD	AS	\$1,509,529	29,200	1	CEO,DIR	12/6/18	\$51.70	\$52.51	-13%	3,078
0-000	11/14/18 Workiva	WK	S,AS	\$1,506,540	42,998	3	BO,CEO,CFO,DIR,PR	12/12/18	\$35.04	\$35.10	-14%	1,539
0-00	9/21/18 Exxon Mobil	ХОМ	S	\$1,434,474	18,648	2		12/14/18	\$76.92	\$75.58	-14%	319,991
0-000	11/9/18 Amedisys	AMED	OS	\$1,431,808	10,645	2	10,0	12/12/18	\$134.51	\$124.24	-4%	3,962
0-000	12/12/18 DexCom	DXCM	AS,OS	\$1,406,801	11,562	2	CB,CCO,CEO,DIR,GC	12/10/18	\$121.67	\$120.66	-20%	10,720
0-000	11/9/18 Teleflex	TFX	OS	\$1,348,909	5,200	1	CFO,VP	12/7/18	\$259.41	\$247.43	-10%	11,377
0-000	9/17/18 Caseys General Stores	S CASY	OS	\$1,340,750	10,000	2	CEO,CFO,DIR,PR,VP	12/12/18	\$134.08	\$134.31	-2%	4,917
0-000	12/12/18 Clearbridge MLP Fd	CEM	S	\$1,323,040	117,568	1	CIO,MD	12/10/18	\$11.25	\$11.31	-35%	796
0-00	11/2/18 Illumina	ILMN	AS	\$1,309,675	3,944	2		12/12/18	\$332.07	\$326.46	-10%	47,990
0-00	12/6/18 Everbridge	EVBG	AS	\$1,280,653	23,700	1	PR	12/12/18	\$54.04	\$53.55	-14%	1,588
000	12/14/18 Monster Beverage	MNST	OS	\$1,278,686	23,661		DIR.FO.VP	12/13/18	\$54.04	\$52.69	-22%	29,136
000	11/30/18 Home Depot	HD	OS	\$1,278,172	7,203	1	GC,SEC,VP	12/7/18	\$177.45	\$172.29	-18%	194,606
0-00	10/22/18 TriNet	TNET	AS	\$1,268,776		1	DIR	12/6/18	\$42.29	\$42.13	-30%	2,968
0-00	12/14/18 Arrowhead Pharm	ARWR	AS	\$1,266,300		1	CEO,DIR	12/12/18	\$14.07	\$14.32	-37%	1,321
0-00	11/8/18 Alexandria RE Equities		S	\$1,262,600	10,000				\$126.26	\$122.50	-6%	13,172
0-000	11/9/18 Seattle Genetics	SGEN	OS	\$1,203,545	20,148	1	CEO,DIR,PR	12/10/18	\$59.74	\$60.48	-29%	9,760
^ ^ ^ ^	11/27/18 Cisco Sys	CSCO	S	\$1,199,503	25,000		DIR	12/12/18	\$47.98	\$45.82	-3%	206,005
0-000	12/6/18 D R Horton	DHI	OS	\$1,150,949	31,000	1	COO,VP	12/7/18	\$37.13	\$35.50	-30%	13,358
0.0.0	11/20/18 UniFirst	UNF	OS	\$1,136,397	8,000	1	BO,DIR,TR,VP	12/14/18		\$139.93	-26%	2,679
000	12/10/18 Emcor	EME	OS,S	\$1,107,266	25,000	1	DIR	12/11/18	\$44.29	\$63.51	-71%	3,656
000	12/13/18 VMware	VMW	500,0	\$1,073,020	6,500	1	CFO,VP	12/12/18		\$158.58	-3%	65,001
0-000	11/20/18 Church & Dwight Co	CHD	OS	\$1,072,000	16,000	1	DIR	12/11/18	\$67.00	\$68.73	-4%	16,924
0-000	11/7/18 Bottomline Tech	EPAY	s	\$1,036,655	20,592	2	CEO,CFO,DIR,PR	12/7/18	\$50.34	\$49.32	-33%	2,125
000	11/26/18 Boston Beer	SAM	AS	\$1,030,975	3,749	1	BO,CB,DIR	12/12/18	\$275.00	\$269.03	-17%	3,126
000	11/14/18 Fidelity Natl Info Svcs	FIS	OS	\$1,016,186	9,506	1	CAO	12/12/18		\$104.59	-4%	34,252
000	12/14/18 Great Lakes Dredge	GLDD	s	\$941,495	125,000	1	DIR	12/12/18	\$7.53	\$7.31	-5%	457
000	11/19/18 Omega Healthcare	OHI	AS	\$931,200	25,000	1	0	12/11/18	\$37.25	\$36.70	-3%	7,366
000	•	BLMT	OS		29,825						-3%	292
000	12/11/18 BSB Banc			\$919,528		2		12/13/18	\$30.83	\$29.90		
0-000	12/12/18 Bio-Rad LABS	BIO	JS*	\$917,977	3,616	3	CT,OO,VP	12/14/18	\$253.87	\$247.82	-26%	7,423

InsiderInsights Ratings of Latest Insider Sales (Continued)

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	Scherated man	•		Total				Latest	Διο		% Pr	Mkt
Insider	Rating		Trans	Sale	Shares			Trans	Ave. Sale	Recent	Below	Cap
Rating*	Date Company	Ticker	Type(s)*	Value		f Ins	siders - Title(s)*	Date	Price	Price	Highs	(mm)
000 -0	11/5/18 Electronic Arts	EA	AS	\$892,768		1	.,	12/11/18	\$85.03	\$80.16	-44%	24,219
0-000	12/6/18 Dropbox	DBX	AS	\$890,588	40,695	2	GC,O	12/6/18	\$21.88	\$22.60	-50%	9,187
0-00	12/7/18 Quanterix	QTRX	S,OS	\$871,477	45,000	2	CFO,FO,VP	12/14/18	\$19.37	\$18.44	-21%	409
	11/20/18 Homology Medicin		S	\$810,059	31,150	2		12/10/18	\$26.01	\$24.28	-2%	910
0-000	12/7/18 Coupa Software	COUP	OS	\$795,454	12,118	2	A0,0	12/12/18	\$65.64	\$64.53	-23%	3,836
	12/14/18 ExlService	EXLS	S,AS,OS	\$792,060	14,476	3	DIR,HR,VP	12/12/18	\$54.72	\$55.00	-17%	1,884
A A A	11/20/18 PetIQ	PETQ	AS	\$776,710	25,500	2	CFO,DIR,VP	12/13/18	\$30.46	\$29.85	-31%	841
	12/11/18 Imax	IMAX	S	\$764,041	41,800	3	CEO,DIR,LO,VP	12/10/18	\$18.28	\$19.48	-30%	1,219
0.0.0	12/12/18 Hewlett Packard	HPE	AS	\$755,626	51,939	2		12/11/18	\$14.55	\$14.22	-25%	19,889
000	12/10/18 Customers Banc	CUBI	S	\$724,088	40,110	1	COO,PR	12/11/18	\$18.05	\$17.82	-44%	565
A A A	12/11/18 Scotts Miracle-Gro		OS	\$709,048	10,156	1	COO,PR	12/7/18	\$69.82	\$63.51	-37%	3,514
A A A	11/14/18 Boingo Wireless	WIFI	OS	\$705,080	30,000	1	CEO,DIR	12/12/18	\$23.50	\$21.25	-35%	903
000	12/11/18 PPL	PPL	OS	\$694,714		1	GC,SEC,VP	12/7/18	\$31.00	\$30.59	-9%	22,031
000	11/16/18 Premier	PINC	os	\$684,360		1	HR,VP	12/10/18	\$38.02	\$37.92	-20%	5,056
0-000	11/6/18 Charles Schwab	SCHW	OS	\$684,116	16,387	1	DIR	12/13/18	\$41.75	\$41.19	-31%	55,625
0-000	11/8/18 Watts Water Tech		OS	\$641,307		1	PR	12/10/18	\$69.91	\$70.18	-25%	2,393
000	12/10/18 Fox Factory	FOXF	s	\$630,308	9,701	2	CFO,DIR,TR	12/11/18	\$64.97	\$61.48	-17%	2,395
0-000	12/3/18 Henry Schein	HSIC	s	\$626,373		1	LO,SEC,VP	12/10/18	\$84.36	\$80.52	-8%	12,274
0-000	9/24/18 Magellan Midstrea		s	\$581,368	10,000	1	VP	12/10/18	\$58.14	\$58.03	-23%	13,242
A A A	11/21/18 Beigene	BGNE	AS	\$561,863	4,138	1	CEO,DIR	12/10/18	\$135.78	\$133.85	-38%	7,682
0-000	11/9/18 Johnson & Johnso		S	\$536,638	3,643	1	CAO.CT	12/13/18	\$147.31	\$133.00	-1%	356,703
0-000	12/6/18 HubSpot	HUBS	os	\$530,541	4,140	1	DIR	12/10/18	\$128.15	\$132.41	-21%	5,195
000	12/10/18 Natl Bank	NBHC	s	\$527,786	15,136	1	CEO,DIR	12/6/18	\$34.87	\$32.64	-16%	1,004
000	10/11/18 QUALCOMM	QCOM	AS	\$524,895	9,048	1	GC,VP	12/13/18	\$58.01	\$57.62	-24%	69,845
000	12/12/18 T Rowe Price	TROW	s	\$523,930	5,681	1	VP	12/10/18	\$92.22	\$91.97	-28%	22,133
A A A	12/11/18 Carecom	CRCM	s	\$514,953	30,561	4	CEO,CFO,CTO,DIR,GO		\$16.85	\$91.97	-27%	542
0-000		MTN	S S		2,134		DIR		\$240.02	\$17.04	-21%	9,060
0-000	10/3/18 Vail Resorts	DIS	OS	\$512,203 \$508,690	4,500	1	FO,VP	12/12/18		\$224.33	-6%	9,000
000	10/2/18 Walt Disney Co	VRSN	s		3,300			12/12/18	\$113.04		-15%	
000	11/6/18 Verisign	ALRM	S	\$497,673		1	GC,SEC,VP	12/6/18 12/10/18	\$150.81	\$152.67	-18%	18,456
000	11/13/18 AlarmCom Hldg			\$496,800	10,000	1	CEO,DIR,PR		\$49.68	\$53.09	-27%	2,549
	11/1/18 Smartsheet 12/14/18 Dominion En Mids	SMAR	AS S	\$493,336	20,000	1	CEO,DIR,PR	12/10/18	\$24.67	\$24.77	-41%	2,569
A A A				\$482,096		3	CEO,CFO,DIR,GC,PR VP		\$19.21	\$19.36	-41%	2,451
000	10/16/18 ViaSat	VSAT	AS	\$464,401	7,013	1		12/11/18	\$66.22	\$64.53	-7%	3,849
000 -0	10/5/18 Vocera Comms	VCRA PSTG	OS,AS OS	\$455,631 \$453,577	11,500 25,000	2	CB,CEO,DIR,PR CFO	12/7/18 12/6/18	\$39.62 \$18.14	\$40.58 \$17.13	-38%	1,240
000	9/21/18 Pure Storage	NVEE	s						\$64.59		-33%	4,139
000	11/19/18 NV5 Global			\$452,126	7,000	1		12/12/18		\$63.43	-22%	792
000	11/13/18 Qualys	QLYS	OS	\$445,370 \$425,787	5,796	2	GC,O,SEC,VP	12/10/18	\$76.84 \$54.47	\$79.94		3,148
000	11/2/18 Badger Meter	BMI	S	\$435,787	8,000	1		12/13/18	\$54.47	\$54.49 \$83.60	-5% -20%	1,586
000 -0	12/4/18 Tech Data	TECD	S	\$435,204	5,000	1		12/11/18	\$87.04	\$83.60		3,120
000	10/17/18 Zendesk	ZEN	OS	\$429,586	7,000	1	LO,VP	12/12/18	\$61.37	\$59.86	-16%	6,408
000	10/26/18 Microsoft	MSFT	S	\$422,000	4,000	1	SO,VP	12/10/18	\$105.50	\$106.03	-9%	813,910
000	12/12/18 Casella Waste Sys		S	\$421,760	14,000	2		12/14/18	\$30.13	\$30.37	-11%	1,304
000	11/28/18 Healthcare Rity Tr		S	\$410,239	13,593	1	DIR	12/12/18	\$30.18	\$30.27	-11%	3,791
000	11/5/18 Life Storage	LSI	S	\$405,008	4,006	1	C00	12/14/18	\$101.10	\$101.31	-2%	4,721
000	12/11/18 Stryker	SYK	S	\$404,289	2,361	1		12/7/18	\$171.24	\$166.56	-5%	62,325
	12/10/18 Trecora Res	TREC	S	\$402,895	48,079	1	CB,DIR	12/12/18	\$8.38	\$8.21	-45%	201
000	12/11/18 Essex Prop Tr	ESS	OS,AS	\$395,813	1,497	3	CEO,CFO,PR,VP	12/11/18	\$264.40	\$262.28	-1%	17,328
000 -0	10/1/18 Omnicell	OMCL	AS	\$390,800	5,574	1	CFO,VP	12/10/18	\$70.11	\$66.28	-12%	2,626
000	11/14/18 ServiceNow	NOW	OS	\$379,797	2,031	1	0	12/12/18	\$187.00	\$181.98	-9%	32,629
000 -0	11/6/18 Irhythm Tech	IRTC	OS	\$379,453	5,176	1	SO,VP	12/7/18	\$73.31	\$72.34	-26%	1,749

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



InsiderInsights Ratings of Latest Insider Sales (Continued)

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				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)
000 -0	11/20/18 Tucows	тсх	S	\$355,351	5,500	1	VP	12/12/18	\$64.61	\$63.61	-10%	675
000 -0	11/15/18 PS Business Parks	PSB	S	\$347,916	2,500	1	DIR	12/11/18	\$139.17	\$139.92	-3%	3,826
000 -0	12/6/18 New Relic	NEWR	AS	\$343,160	4,000	1	0	12/12/18	\$85.79	\$87.17	-25%	4,965
000 -0	10/5/18 Atara BioTherap	ATRA	AS	\$332,709	7,800	1	CEO,DIR	12/13/18	\$42.66	\$41.72	-22%	1,905
000 -0	12/13/18 ALLETE	ALE	AS	\$324,200	4,000	1	CB,CEO,DIR,PR	12/12/18	\$81.05	\$80.78	-2%	4,154
0-000	11/19/18 Sonoco Prod Co	SON	OS	\$320,296	5,679	1	HR,VP	12/7/18	\$56.40	\$56.00	-4%	5,589
000 -0	12/13/18 Jagged Peak Energy	JAG	AS	\$319,047	31,250	1	CFO,VP	12/13/18	\$10.21	\$9.82	-38%	2,094
0-000	12/13/18 Welltower	WELL	OS	\$317,683	4,342	1	BD,VP	12/11/18	\$73.17	\$72.34	-2%	27,174
000 0	11/16/18 NeoGenomics	NEO	JS*	\$130,021,744	10,835,145	1	BO	12/14/18	\$12.00	\$13.25	-37%	1,238
000 0	11/14/18 JBG SMITH Prop	JBGS	S	\$18,172,518	463,746	1	DIR	12/12/18	\$39.19	\$37.42	-3%	4,525
000 0	12/11/18 ID Sys	IDSY	JS*	\$12,244,581	2,111,171	1	BO	12/7/18	\$5.80	\$5.29	-28%	96
000 0	11/28/18 CarGurus	CARG	AS,OS	\$12,118,536	340,868	4	BO,CB,CEO,COO,CTO	12/13/18	\$35.55	\$34.76	-39%	3,826
000 0	12/6/18 Ebix	EBIX	S,JS*	\$9,260,032	210,000	1	BO	12/11/18	\$44.10	\$43.41	-48%	1,357
000 0	11/19/18 Goosehead Insurance	e GSHD	AS	\$7,739,143	284,331	3	BO,CEO,DIR	12/13/18	\$27.22	\$27.39	-29%	994
000 0	12/13/18 Genomic Health	GHDX	OS,S	\$7,385,613	100,420	2	BO,CFO,DIR	12/12/18	\$73.55	\$69.34	-22%	2,505
000 0	12/12/18 Verisk Analytics	VRSK	OS	\$6,123,797	53,125	1	COO,VP	12/11/18	\$115.27	\$113.83	-9%	18,739
000 0	11/26/18 Kellogg	к	AS	\$5,993,980	100,000	1	BO	12/10/18	\$59.94	\$60.36	-20%	20,946
000 0	12/10/18 Natl Health Investors	NHI	OS	\$5,754,460	71,540	1	0	12/13/18	\$80.44	\$79.31	-1%	3,349
000 0	11/14/18 Corcept Therap	CORT	OS,S	\$5,742,028	302,115	3	CEO,CFO,DIR,O	12/12/18	\$19.01	\$16.11	-27%	1,860
000 0	11/14/18 Fair Isaac	FICO	OS	\$5,255,306	28,313	1	VP	12/12/18	\$185.61	\$188.07	-22%	5,446
000 0	12/13/18 Patrick Ind	PATK	S	\$4,277,045	131,397	1	DIR	12/13/18	\$32.55	\$30.28	-52%	727
000 0	12/3/18 Amgen	AMGN	OS	\$3,908,232	20,000	1	DIR	12/6/18	\$195.41	\$192.07	-7%	122,391
000 0	11/6/18 Chegg	CHGG	OS	\$3,626,871	121,434	2	CB,CEO,CFO,DIR,PR	12/12/18	\$29.87	\$29.21	-10%	3,356
000 0		PSA	OS	\$3,182,058	15,000	1	LO,SEC,VP	12/11/18	\$212.14	\$203.47	-10%	35,478
000 0	12/6/18 Hormel Foods	HRL	OS,S	\$2,873,980	64,000	2	CFO,DIR,VP	12/12/18	\$44.91	\$44.57	-3%	23,827
000 0	10/26/18 Alteryx	AYX	AS	\$2,849,679	48,500	2	CB,CEO,CFO,DIR	12/10/18	\$58.76	\$64.42	-13%	3,954
000 0	12/14/18 Boyd Gaming	BYD	S	\$2,419,400	100,000	1	DIR,VP	12/13/18	\$24.19	\$23.92	-40%	2,684
000 0		NG	OS	\$2,393,510	705,352	2	CEO,DIR,GC,PR,VP	12/10/18	\$3.39	\$3.84	-63%	1,242
000 0		W	AS	\$1,974,929	18,493	2		12/12/18	\$106.79	\$103.29	-29%	9,332
000 0	10/30/18 SendGrid	SEND	OS,AS	\$1,887,362	42,057	3	CEO,DIR,PR,SO,VP	12/6/18	\$44.88	\$44.13	-7%	2,090
0000 0		LPLA	OS	\$1,814,071	29,876	1	MD	12/12/18	\$60.72	\$59.09	-17%	5,124
000 0		WSC	S	\$1,812,000	150,000	1	DIR	12/12/18	\$12.08	\$11.39	-34%	1,234
000 0	11/29/18 Ventas	VTR	AS	\$1,668,940	25,676	2		12/6/18	\$65.00	\$62.56	-1%	22,301
0000 0		MGPI	AS	\$1,627,379	26,862	1	DIR	12/12/18	\$60.58	\$56.51	-40%	953
000 0		QNST	S,OS	\$1,509,151	94,197	2	CEO,DIR	12/12/18	\$16.02	\$15.93	-10%	785
000 0		RCKT	S	\$1,462,344	96,500	1	DIR	12/13/18	\$15.15	\$15.32	-42%	680
000 0			AS,S	\$1,345,150	17,733	3	CEO,DIR,PR	12/12/18	\$75.86	\$70.05	-17%	1,434
000 0			AS,OS	\$1,340,741			GC,SEC,VP	12/12/18	\$36.74	\$35.35	-34%	2,028
000 0		ARGO	OS	\$1,219,065	17,652	2		12/12/18	\$69.06	\$67.09	-1%	2,274
000 0		CDZI	S	\$1,092,240	111,000		BO	12/10/18	\$9.84	\$9.27	-33%	227
000 0		EQR	OS	\$966,210	13,416	2		12/7/18	\$72.02	\$69.94	-1%	26,750
000 0	, ,	CDXS	OS	\$954,041	43,812	1	CEO,DIR,PR	12/7/18	\$21.78	\$19.51	-6%	1,054
000 0		REN	s	\$910,123	27,790	1	DIR	12/13/18	\$32.75	\$30.68	-17%	711
000 0		PCRX	S	\$680,496	14,527	1	DIR	12/13/18	\$46.84	\$45.26	-15%	1,861
000 0		HBI	AS	\$602,711	40,688	1	PR	12/12/18	\$14.81	\$13.57	-37%	4,895
000 0		MDRX	S	\$589,233	60,000	1	PR	12/13/18	\$9.82	\$10.39	-39%	1,815
0000 0		YEXT	OS,AS	\$575,324	37,000	3		12/13/18	\$15.55	\$15.27	-42%	1,540
0000 0		JAZZ	OS	\$467,460	3,334	1	GC,VP	12/14/18	\$140.21	\$140.56	-24%	8,479
000 0		KR	OS	\$421,370	14,500	1		12/7/18	\$29.06	\$29.55	-11%	23,564
000	11/28/18 Helmerich & Payne	HP	S	\$415,268	6,912			12/11/18	\$60.08	\$58.48	-20%	6,377
			0	ψ.10,200	0,012				<i>\\</i> 00.00	400.40	_0/0	0,011

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"

					Total				Latest	Ave.		Mkt	10-Day
Inside	r	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	12/10/18 W R Grace	GRA	В	\$45,173,182	738,847	1	BO	12/13/18	\$61.14	\$61.22	4,101	700
000	+1	12/14/18 Ra Pharm	RARX	JB*	\$41,200,008	2,658,065	3	BO,DIR	12/14/18	\$15.50	\$16.29	664	1,080
000	+0	12/12/18 Reata Pharm	RETA	В	\$19,751,502	332,478	3	BO,DIR	12/12/18	\$59.41	\$59.47	1,767	200
000	0	12/4/18 Seagate Tech PLC	STX	В	\$16,244,301	400,000	1	DIR	12/7/18	\$40.61	\$38.55	11,033	4,100
000	+1	12/13/18 Mohawk Ind	MHK	В	\$14,222,645	119,346	2	DIR	12/13/18	\$119.17	\$116.98	8,680	1,140
000	+1	12/10/18 Quotient	QTNT	JB*	\$13,065,000	2,010,000	2	BO,DIR	12/11/18	\$6.50	\$7.20	457	540
000	+1	12/12/18 Newmark	NMRK	В	\$9,074,133	1,003,792	2	CEO,DIR	12/12/18	\$9.04	\$9.07	2,289	5,270
000	+1	10/18/18 Intl Flavors & Frag	IFF	В	\$7,184,857	52,798	1	BO	12/12/18	\$136.08	\$135.50	14,447	1,020
000	+1	12/14/18 Fluidigm	FLDM	JB*,B	\$7,020,462	1,035,033	1	BO	12/12/18	\$6.78	\$7.78	369	610
000	+2	12/13/18 Live Oak Banc	LOB	В	\$6,642,574	418,800	9	BO,CEO,DIR,GC,PR	12/14/18	\$15.86	\$14.84	596	480
000	+0.5	12/10/18 Trinity Ind	TRN	В	\$6,146,365	280,506	1	BO,DIR	12/10/18	\$21.91	\$20.95	3,065	2,340
000		11/19/18 AVEO Pharm	AVEO	В	\$4,134,927	2,084,400	9	BO	12/11/18	\$1.98	\$1.95	244	1,550
000	+0.5	12/3/18 Entercom Comms	ETM	В	\$3,911,020	600,000	1	CB,DIR	12/13/18	\$6.52	\$6.38	909	1,020
000		11/14/18 Exterran	EXTN	В	\$3,394,642	160,140	1	BO	12/13/18	\$21.20	\$19.83	717	210
000		12/13/18 Aramark	ARMK	B	\$3,200,503	98,564	2	CB,CEO,DIR,PR	12/13/18	\$32.47	\$32.08	7,915	5,520
000	+1	10/3/18 Barings BDC	BBDC	AB,B	\$3,008,623	304,500	2	BO,DIR,FO	12/13/18	\$9.88	\$9.60	492	310
000		12/14/18 Second Sight Medical	EYES	JB*	\$2,999,992	3,275,100	1	BO.DIR	12/12/18	\$0.92	\$0.91	67	1,050
* ~ ~		9/17/18 Hyster-Yale Materials	HY	AB	\$2,556,014			CB,DIR,O	12/12/18	\$62.49	\$61.64	1,021	50
000		12/10/18 Revion	REV	B	\$2,329,203	96,191	1	BO,DIR	12/12/18	\$24.21	\$24.95	1,318	120
000		12/13/18 Royal Caribbean	RCL	B	\$1,995,808	18,900	1	CB,CEO,DIR	12/13/18	\$105.60	\$107.09	22,381	1,450
000		•											
000		12/13/18 Valero Energy	VLO	B	\$1,818,375	25,000	1	DIR	12/11/18	\$72.74	\$73.30	31,102	5,350
000		11/20/18 Platform Specialty Proc		B	\$1,796,850	164,250	2	DIR	12/10/18	\$10.94	\$10.91	3,146	1,910
		12/14/18 Yangtze River Port	YRIV	В	\$1,697,437	339,435	1	BO,CEO,DIR	12/13/18	\$5.00	\$3.72	642	1,790
000		12/12/18 Methode Electr	MEI	В	\$1,685,474		1	CEO,DIR	12/11/18	\$23.79	\$22.38	828	740
000		10/31/18 GMS	GMS	В	\$1,658,124	106,000	2	DIR	12/12/18	\$15.64	\$15.78	650	1,210
		12/14/18 Compass Diversified	CODI	JB*,B	\$1,657,851	98,161	3	BO,O	12/14/18	\$16.89	\$13.59	814	280
000	+1	11/26/18 Sunrun	RUN	В	\$1,645,943	118,546	1	BO	12/11/18	\$13.88	\$13.02	1,456	1,450
000	+0	11/7/18 Del Friscos Rest	DFRG	В	\$1,551,512	240,000	1	BO	12/14/18	\$6.46	\$6.50	217	790
000	+1	11/19/18 XOMA	XOMA	В	\$1,424,690	97,486	1	BO	12/13/18	\$14.61	\$14.23	120	80
000	+1	12/10/18 United Continental	UAL	В	\$1,321,250	15,000	1	DIR	12/7/18	\$88.08	\$87.74	23,906	3,830
000	+0	12/11/18 TheStreet	TST	В	\$1,305,084	636,197	1	BO	12/12/18	\$2.05	\$2.05	102	1,830
000	+1	12/11/18 Lixte Biotechnology	LIXT	JB*	\$1,250,000	2,500,000	4	BO,DIR	12/7/18	\$0.50	\$0.95	55	10
000	+0.5	12/12/18 Achaogen	AKAO	В	\$1,234,194	765,779	1	BO	12/11/18	\$1.61	\$1.62	75	1,140
000	0	11/13/18 E W Scripps Co	SSP	AB	\$1,200,196	70,956	4	BO	12/14/18	\$16.91	\$16.32	1,317	420
000	0	12/12/18 Cadiz	CDZI	В	\$1,096,680	111,000	1	BO	12/10/18	\$9.88	\$9.27	227	140
000	+1	12/11/18 Royce Global Value Tr	RGT	В	\$1,045,712	113,600	2	DIR	12/14/18	\$9.21	\$8.97	94	50
000	+3	12/13/18 At Home	HOME	В	\$1,004,595	47,876	4	CFO,DIR	12/11/18	\$20.98	\$19.10	1,214	2,490
000	+0	12/10/18 Eastman Chemical	EMN	В	\$988,335	13,500	1	DIR	12/7/18	\$73.21	\$71.50	10,013	1,750
000	+0	12/12/18 Amkor Tech	AMKR	В	\$949,000	150,000	1	CEO,DIR,PR	12/11/18	\$6.33	\$6.37	1,526	970
000	+1	10/30/18 Lakeland Finl	LKFN	B,JB*	\$945,387	22,332	2	DIR,VP	12/14/18	\$42.33	\$41.20	1,042	100
000		11/14/18 RiceBran Tech	RIBT	В	\$935,589	281,901	1	BO	12/11/18	\$3.32	\$3.43	93	230
000		11/21/18 Brookfield Prop Reit	BPR	В	\$827,500	50,000	1	0	12/10/18	\$16.55	\$16.44	2,093	3,240
000		12/10/18 Renasant	RNST	В	\$823,743	25,000	1	VP	12/10/18	\$32.95	\$31.07	1,824	280
000		11/28/18 Otelco	OTEL	B	\$821,493	51,312	1	BO	12/12/18	\$16.01	\$16.25	55	200
000		12/13/18 QCR	QCRH	В	\$770,815	22,974		CFO,COO,DIR,FO,VP	12/12/18	\$33.55	\$33.34	523	50
000		12/10/18 Legacy Reserves	LGCY	B	\$745,118	383,751		BO	12/10/18	\$1.94	\$1.39	148	950
000		12/11/18 Amers Car-Mart	CRMT	B	\$679,469	10,000		DIR	12/7/18	\$67.95	\$70.61	478	80
• • • •		12/11/18 Synergy CHC	SNYR	JB*	\$673,769		1	BO,CEO,DIR,PR	12/10/18	\$0.55	\$0.20	18	20
000						1,225,034							
000		12/14/18 KLX Energy Svs	KLXE	B	\$673,222	27,300		DIR,VP	12/12/18	\$24.66	\$23.76	531	340
000	ΨU	12/14/18 Cumulus Media	CMLS	В	\$612,640	61,000	1	BO	12/13/18	\$10.04	\$10.75	177	20



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	Сар	Ave Vol
Rating		Date Company	Ticker	Type(s)*	Value		# Ins	siders - Title(s)*	Date	Price	Price	(mm)	(m)
000	-0	11/23/18 Walmart	WMT	S	\$442,903,008	4,721,520	3	BO,DIR	12/12/18	\$93.81	\$91.85	266,848	9,190
000	0	11/16/18 NeoGenomics	NEO	JS*	\$130,021,744	10,835,145	1	BO	12/14/18	\$12.00	\$13.25	1,238	1,440
000 -	0.5	12/10/18 Keane	FRAC	JS*	\$56,555,952	5,251,249	1	BO	12/6/18	\$10.77	\$8.96	938	1,790
000	-0	12/6/18 Workday	WDAY	AS	\$50,781,110	314,467	2	BO,DIR,GC,SEC,VP	12/10/18	\$161.48	\$162.03	35,323	3,910
000	-0	11/21/18 Inspire Medical Sys	INSP	JS*	\$46,279,736	1,230,844	3	DIR	12/11/18	\$37.60	\$41.36	947	390
000	-0	12/12/18 Okta	ΟΚΤΑ	S	\$40,437,748	620,195	1	DIR	12/12/18	\$65.20	\$66.81	7,378	3,000
000	-0	11/9/18 Square	SQ	AS	\$38,687,720	606,070	2	BO,CB,CEO,DIR,PR	12/12/18	\$63.83	\$62.14	25,695	17,690
000	-0	12/6/18 Twitter	TWTR	AS	\$24,824,227	688,236	2	CFO,DIR	12/13/18	\$36.07	\$35.87	27,306	25,280
000	-0	12/3/18 Cracker Barrel	CBRL	S	\$22,684,180	129,600	1	BO	12/13/18	\$175.03	\$171.43	4,120	500
000	0	11/14/18 JBG SMITH Prop	JBGS	S	\$18,172,518	463,746	1	DIR	12/12/18	\$39.19	\$37.42	4,525	740
000	-0	9/13/18 Capital City Bank	CCBG	JS*	\$16,059,830	648,882	2	BO	12/10/18	\$24.75	\$24.80	423	20
000	-0	12/10/18 Zuora	ZUO	S,AS	\$15,685,433	842,070	3	DIR,GC,PR,SEC,VP	12/12/18	\$18.63	\$18.24	1,979	1,670
000	-0	11/14/18 RealPage	RP	AS	\$13,218,484	255,326	2	BO,CB,CEO,DIR,PR	12/12/18	\$51.77	\$48.11	4,518	1,030
000	0	12/11/18 ID Sys	IDSY	JS*	\$12,244,581	2,111,171	1	BO	12/7/18	\$5.80	\$5.29	96	250
000	0	11/28/18 CarGurus	CARG	AS	\$11,379,014	319,868	3	BO,CB,CEO,CTO,DIR	12/13/18	\$35.57	\$34.76	3,826	770
000	0	12/6/18 Ebix	EBIX	JS*,S	\$9,260,032	210,000	1	BO	12/11/18	\$44.10	\$43.41	1,357	610
000	-0	12/13/18 Fate Therap	FATE	S	\$8,511,873	507,528	1	DIR	12/12/18	\$16.77	\$15.88	1,025	1,210
000	-1	11/19/18 Facebook	FB	AS	\$8,046,601	57,112	2	CAO,COO,DIR	12/10/18	\$140.89	\$144.06	413,998	24,060
000	0	11/19/18 Goosehead Insurance	GSHD	AS	\$7,739,143	284,331	3	BO,CEO,DIR	12/13/18	\$27.22	\$27.39	994	160
000	-0	12/14/18 Coda Octopus	CODA	JS*	\$7,193,290	1,251,007	1	BO	12/12/18	\$5.75	\$5.90	62	10
000	-0	11/30/18 AbbVie	ABBV	AS	\$6,895,438	76,850	2	CB,CEO,DIR,FO,VP	12/12/18	\$89.73	\$85.61	128,776	6,520
000	-0	10/16/18 Veeva Sys	VEEV	AS	\$6,879,016	76,156	2	CFO,GC,SEC,VP	12/12/18	\$90.33	\$91.39	13,279	1,770
000	0	12/13/18 Genomic Health	GHDX	S	\$6,306,394	85,420	1	BO,DIR	12/12/18	\$73.83	\$69.34	2,505	480
000	-0	11/13/18 Palo Alto Networks	PANW	AS	\$6,156,752	34,500	2	CTO,DIR,VP	12/11/18	\$178.46	\$184.03	17,461	2,150
000	-1	10/4/18 Acorda Therap	ACOR	S	\$6,029,891	360,210	1	BO	12/12/18	\$16.74	\$16.18	770	980
000	0	11/26/18 Kellogg	К	AS	\$5,993,980	100,000	1	BO	12/10/18	\$59.94	\$60.36	20,946	2,770
000	-0	11/9/18 Amphastar Pharm	AMPH	S	\$5,702,105	267,830	2	BO,CEO,DIR	12/13/18	\$21.29	\$20.32	937	440
000	0.5	12/13/18 Macerich Co	MAC	S	\$5,256,593	105,574	1	CEO	12/11/18	\$49.79	\$47.77	6,738	1,760
000	-0	12/13/18 Turtle Beach	HEAR	AS	\$5,016,512	289,923	1	BO	12/13/18	\$17.30	\$16.49	235	810
000	-0	12/11/18 Synopsys	SNPS	AS	\$4,785,587	53,611	2	CB,CEO,DIR,PR	12/10/18	\$89.27	\$87.65	13,024	1,660
000	-0	11/14/18 Vector	VGR	S	\$4,712,000	400,000	1	DIR	12/7/18	\$11.78	\$10.37	1,461	2,290
000	-0	12/12/18 RingCentral	RNG	AS,S	\$4,634,508	54,032	2	BO,CB,CEO,DIR	12/13/18	\$85.77	\$82.47	6,625	1,040
000	0	12/13/18 Patrick Ind	PATK	S	\$4,277,045	131,397	1	DIR	12/13/18	\$32.55	\$30.28	727	390
	-0	10/17/18 salesforcecom	CRM	AS	\$3,811,316	27,429	3	CB,CEO,CFO,DIR,HR	12/14/18	\$138.95	\$137.04	104,836	6,690
	-0	12/4/18 Splunk	SPLK	AS	\$3,793,289	35,416	6	CEO,CTO,DIR,GC,OO	12/12/18	\$107.11	\$105.26	15,556	3,050
	-0	11/16/18 Clorox Co	CLX	S	\$3,603,921	22,060	2	CAO,CT,VP	12/7/18	\$163.37	\$164.52	21,001	1,090
000	-0	11/19/18 Morningstar	MORN	AS	\$3,438,167	30,163	1	BO,CB,DIR	12/12/18	\$113.99	\$114.42	4,881	100
000	-0	12/10/18 Mesa LABS	MLAB	S	\$3,190,780	15,000	1	DIR	12/10/18	\$212.72	\$207.33	799	40
000	0	10/26/18 Alteryx	AYX	AS	\$2,849,679	48,500	2	CB,CEO,CFO,DIR	12/10/18	\$58.76	\$64.42	3,954	960
000	-0	11/13/18 Eli Lilly & Co	LLY	AS	\$2,822,959	25,000	1	OO,PR,VP	12/10/18	\$112.92	\$111.93	118,570	4,840
	-0	10/31/18 TPI Composites	TPIC	S,AS	\$2,772,280	105,783	2	DIR	12/13/18	\$26.21	\$24.77	855	210
000	-0	10/2/18 HP	HPQ	AS	\$2,669,619	116,134	1	CEO,DIR,PR	12/11/18	\$22.99	\$22.01	34,192	14,450
	-0	11/8/18 CME	CME	S	\$2,623,300	13,687	2	DIR,FO	12/12/18	\$191.66	\$187.64	67,133	2,360
	-0	11/30/18 Adv Micro Devices	AMD	AS	\$2,616,250	125,000	1	CEO,DIR,PR	12/6/18	\$20.93	\$19.90	19,888	99,770
	0.5	12/6/18 Arista Networks	ANET	AS	\$2,506,082	11,000	1	CTO,VP	12/10/18	\$227.83	\$220.41	16,625	760
000	0	12/14/18 Boyd Gaming	BYD	S	\$2,419,400	100,000	1	DIR,VP	12/13/18	\$24.19	\$23.92	2,684	1,680
	-0	9/18/18 Docusign	DOCU	AS	\$2,395,969	56,124	1	OO,PR	12/12/18	\$42.69	\$42.89	7,088	3,210
	-0	12/10/18 Evertec	EVTC	S	\$2,262,205	84,378	2	VP	12/13/18	\$26.81	\$27.42	1,995	620
000	0	12/11/18 Novume Solutions	NVMM	JS*	\$2,226,371	4,318,857	2	BO,DIR	12/10/18	\$0.52	\$0.62	12	90
000	-0	11/6/18 Lennox Intl	LII	AS,JS*	\$2,203,867	10,452	5	CB,CEO,CFO,COO,DIF	R 12/13/18	\$210.86	\$213.88	8,616	290

InsiderInsights

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".

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O 10 11/10/18 40 Junit / P 00 With Grades OHA 8 945/173.152 (21/378.5 6 10/37.22 14/37.822 955.10 10/37.33 0 11/11/18 Bach Stahn Stepen BODIR Ra Therm FMAX 8* 955.000006 12/11/6 8 150.22 16.882.200 20% 664 1 12/11/18 Bachagen Fig DIR Mohenak Ind IMK B 514.100.145 15.02 11.02 458.200 20% 664 1 12/10/18 Wardmorphe Adv BODIR Rahema IAAX AP 50.00006 12/11/16 5 11.02 11.078.056 229% 457 1 12/10/18 Wardmorphe Adv BOD Botama FMAR AP 50.0006 12/11/16 5 11.02 11.078.052 12/11/16 5 11.02 11.02 11.02 11.02 11.02 11.02 11.02 11.02 11.02 11.02 11.02 11.02 11.02 11.02 11.02 11.02 11.02			•	T'H - (-)	0	Thelese								
○ 0 12/21/18 Logb LP DB Seegaptin Tran Pt G. STX B S12/24.01 S15.50 S15.20 21.55 S15.20 S15.20 <t< td=""><td>Rating</td><td></td><td></td><td>. ,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td>. ,</td></t<>	Rating			. ,								0		. ,
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■ 11 121/14/15 San Bayes M BOOR Re Pharm PA4X 85 516/000 121/1418 5 116.88 2430,880 95 6.880 ■ 11 121/151 Battes M Bo Daolent G1111 AF 5 116.88 2430,880 95 6.880 ■ 11 121/151 Percepter Au BO Daolent G1111 AF 5 116.98 2130,20 15.223 11.08,264 2235 467 ■ 11 121/151 Conterpress CEO Nerman PE 57,124.827 12 8 30.703,2716 05 13.748 59.776 27.74 23.974 25.776 21.71718 5 30.703,716 05 13.747 12.71718 5 30.733,716 05 13.747 12.72718 5 30.733,716 05 13.747 12.72718 5 30.733,716 05 13.747 12.72718 5 30.35 13.757 07.777 13.777 <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				*									
● • 1 21/11/16 Bits Design (1) Participant (2) Partitipant (2) Particip	000		1 0	- /				. , ,						
■ = = = = = = = = = = = = = = = = = =	000						JB*				\$16.29			
■ •1 12/14/18 Numer Ausocat800 Fa Pharm PAW JSF Separate 15.00 S12.20 1532.24 12% 645 ● •1 12/12/18 Qosin Barry M CEO Nemmark NMRK B 88.890.333 12/12/18 5 50.0 \$13.50	000	+1	12/13/18 Balcaen Filip		Mohawk Ind	MHK	В	\$14,163,145	12/13/18	\$ 119.17	\$116.98			
■ •1 12/21/8 0.905 \$107 5.837.975 21% 2.280 ● +1 1016/18 Winder Inv Pis B0 Init Flavors, A Frag FF B \$71.084.857 121/18 \$1.05.05 37.030.467 121/218 \$1.05.05 37.030.471 \$0.57.05 37.030.471 \$0.57.05 37.030.471 \$0.57.05 37.030.471 \$0.57.05 37.030.471 \$0.57.05 37.030.471 \$0.017.05 \$0.57.05 37.030.471 \$0.017.05 <td>000</td> <td></td> <td></td> <td></td> <td>Quotient</td> <td></td> <td></td> <td>\$13,000,000</td> <td>12/7/18</td> <td>\$ 6.50</td> <td>\$7.20</td> <td>10,789,054</td> <td></td> <td></td>	000				Quotient			\$13,000,000	12/7/18	\$ 6.50	\$7.20	10,789,054		
● • 1 1 0	000	+1	12/14/18 New Enterprise Associa	it BO	Ra Pharm	RARX	JB*	\$9,999,996	12/14/18	\$ 15.50	\$16.29	6,135,234	12%	664
+1 12/14/18 Lowin Cap Strategies LF BO Fludigm FLDM B8P^* 97.020.462 12/12 is 0 57.78 20.374.983 59. 369 +0 12/12/18 Organg/DR Kert J BO,DR Reata Pharm RETA B 86.683.884 12/12/18 \$50.41 \$50.47 20.374.983 69. 1.767 +0 12/12/18 Towseek Ames W_J BO, Reata Pharm RETA B \$56.633.84 12/12/18 \$50.41 \$50.41 \$50.41 \$50.47 3.023.349 4% 1.767 +0 12/12/18 Towseek Ames W_J BO Reata Pharm RETA B \$56.338.51 12/12/18 \$50.41 \$50.41 \$50.41 \$50.47 \$30.57 3.025 \$21.62.08 \$30.70.01 \$21.191 \$5 \$6.52 \$53.81 \$10.450.688 3% \$90 +2 12.1318 5 feat Lowed CBLOR Enteron EXTN B \$3.394.642 12/3118 \$21.20 \$11.83.71 \$0.02 \$0.41 \$40.22 \$2.21.91.718 \$2.22.02 \$2.01.81 <	000	+1	12/12/18 Gosin Barry M	CEO	Newmark	NMRK	В	\$8,990,333	12/12/18	\$ 9.05	\$9.07	5,837,975	21%	2,289
+ 0 12/12/18 Company BODR Reada Pharm RETA B \$6,583,384 12/12/18 \$56,41 \$56,47 281,918 65% 1.767 + 0 12/12/18 Kogalaghy R Kert J BODR Reada Pharm RETA B \$6,583,384 12/12/18 \$56,941 \$56,97 3,022,349 4% 1,767 + 0 12/12/18 Mogalaghy R Kert J B \$6,683,384 12/12/18 \$56,97 3,022,349 4% 1,767 + 0.5 12/11/18 Bold Dame Close B \$55,376.00 12/12/18 \$16.08 \$3,474.02 \$16.89 \$14.84 3,207.04 12% \$16.80 \$3,770.00 12/13/18 \$21.48 \$10.90 \$6,99.99.99 12/12/18 \$12.91.91 \$2.148.85 \$10.90.80 \$6,80.01.45 \$1,99.99.90 12/12/18 \$12.91.91 \$5,39.99.92 12/12/18 \$12.91.91 \$5,39.99.92 12/12/18 \$12.91.91 \$5,39.99.92 12/12/18 \$12.91.91 \$5,39.91.91.91.91.91	000	+1	10/18/18 Winder Inv Pte	BO	Intl Flavors & Frag	IFF	В	\$7,184,857	12/12/18	\$ 136.08	\$135.50	37,039,716	0%	14,447
••••••••••••••••••••••••••••••••••••	000	+1	12/14/18 Levin Cap Strategies Ll	FBO	Fluidigm	FLDM	B,JB*	\$7,020,462	12/12/18	\$ 6.78	\$7.78	20,374,983	5%	369
+0 12/12/18 Traveok James W J BO Reala Pharm RETA B 56,583,834 12/12/18 \$5,441 \$59,47 3,023,349 4% 1.767 ● +0.5,12/10/16 Bozo Brandon B BO,DR Trainly Ind TRN B \$6,142,805 12/10/18 \$6.163 \$8,144,805 12/10/18 \$6.663 \$14.44 3,023,349 4% 1767 ● +2 12/318 Final Assept M CE.DR Enteromo Comm ETM B \$3,334,642 12/11/18 \$1,645,688 3% 900 0 11/11/18 CE.DR Equity Lifestyle Prop ELS 0 83,334,642 12/13/18 \$2.45 52.08 7%,717 6% 7.17 6% 7.17 6% 7.17 6% 7.17 6% 7.17 8 \$3,462 12/13/18 \$2.48 7%,904 6% 7.17 8% 2.208 13,625 7% 7.17 7% 4% 3.18 3.0 50,601 50,17 9	000	+0	12/12/18 Cpmg	BO,DIR	Reata Pharm	RETA	В	\$6,583,834	12/12/18	\$ 59.41	\$59.47	281,918	65%	1,767
● •0.5 12/10/18 BO,DR Trinty Ind TRN B \$\$6,146,365 12/10/18 \$\$ 12.00 2 12.113/18 42.00 21.113/18 42.00 21.840,760 1% 30.665 0 +0.5 12.213/18 51.020 12/13/18 51.020 12/13/18 51.020	000	+0	12/12/18 Mcgaughy R Kent Jr	BO,DIR	Reata Pharm	RETA	В	\$6,583,834	12/12/18	\$ 59.41	\$59.47	3,023,349	4%	1,767
+2 12/13/18 B0,CE0 Lve Oak Banc LOB B \$5.378,021 12/12/18 \$16.08 \$14.84 3.209,714 12% 596 0 0.5 12/1476 Beld Joseph M CB,DR Entercom Comms ETM B \$3.391.000 12/118 \$1.68.8 \$10.000 \$549.511 \$77% 9.004 0 12/1117 201 S1.010 12/1178 \$2.100 \$17.018 \$2.100 \$17.018 \$2.100 \$549.511 \$77% 9.004 +0 11/14/16 Chain Tr BO Externan EXTN B \$3.394.642 \$2.107.118 \$2.206 157.047 6% 7.915 -0 12/11/16 Stannak ARM B \$3.208.1132/118 \$0.02 \$0.019 \$0.265.772 10% 67 7.915 -0 12/11/16 Stannak RB \$2.298.781 2/11/118 \$0.22 \$0.175.440 \$1.482 \$1.482 \$1.482 \$1.480 \$1.481 \$1.482 \$1.480	000	+0	12/12/18 Traweek James W Jr	BO	Reata Pharm	RETA	В	\$6,583,834	12/12/18	\$ 59.41	\$59.47	3,023,349	4%	1,767
● 10.5 12/3/18 Field Joseph M CB,DR Entercom Comms ETM B \$3,911.020 12/13/18 \$ 6.5.2 \$6.88 10,450,888 3% 900 0 10/11/18/2 Chall CB,DR Equity Lifestyle Prop. ELS. OB \$3,770,000 12/13/18 \$18.88 \$100.99 54.91.11 \$5.90.94 51.08 \$5.10.90 54.86 \$7.71.95 \$1.88.8 \$100.99 52.145.948 \$%.77.915 \$1.88.93.91.020 \$1.21.571.8 \$1.21.571.8 \$1.21.571.8 \$1.21.571.8 \$1.21.571.8 \$1.21.571.8 \$1.21.571.8 \$1.21.571.8 \$1.21.571.8 \$1.21.571.8 \$1.22.52.99 \$0.175.446 0%.447.22.281 0 12/13/18 Fain Richard D CB,CEO Revion RCL B \$1.21.571.8 \$1.05.00 \$107.09 \$2.41.00 \$4.447.22.281 0 12/13/18 Fain Richard D CB,CEO Royal Caribaean RCL B \$1.865.474 \$1211118 \$1.02.3 \$3.17.90 \$4.77.3 \$3.17.90 \$4.77.3 \$1.78.3	000	+0.5	12/10/18 Boze Brandon B	BO,DIR	Trinity Ind	TRN	В	\$6,146,365	12/10/18	\$ 21.91	\$20.95	21,840,760	1%	3,065
0 12/11/18 Zell Samuel CB,DIR Equity Lifestyle Prop ELS OB \$3,770,000 12/7/18 \$18.85 \$100.99 549,511 57% 9,064 +0 11/14/18 Chail Tr BO Eduran EXTN B \$3,3004,183 12/13/18 \$2.20 \$15.20 \$19.83 2,145.488 8% 717 +0 12/14/18 Williams Gregg BO,DIR Second Sight Medical EYES JB* \$2,999,992 12/12/18 \$0.92 \$0.91 36,255,772 10% 67 +0 12/14/18 Williams Gregg BO,DR Revon REV B \$2,292,920 12/11/18 \$24.21 \$24.49 \$0,17.444 0% 1.318 0 12/13/18 Fain Richard D CB,DCE Anyal Caribbean RCL B \$1,995,608 12/13/18 \$1.03.23 5.00 3.17 353,435 New 642 0 12/13/18 Wesenburger Randal JDR VREV Port LL VR B \$1,818,37 12/13/18 \$1.03.3 5.00 13.77	000	+2	12/13/18 Mahan James S III	BO,CEO	Live Oak Banc	LOB	В	\$5,378,021	12/12/18	\$ 16.08	\$14.84	3,209,714	12%	596
→0 11/14/18 Chai Tr BO Extm EXTN B \$3,394,642 12/13/18 \$ 21.20 \$19.83 2,145,498 8% 717 ◆ 12/13/18 Ross Eric J CB.CEO Armark ARMK B \$3,204,482 12/12/18 \$19.83 2,145,498 8% 717 ◆ 12/14/18 Nimms Gregg BD.DR Second Sight Medical EVE B \$2,299.992 12/12/18 \$0.92 \$0.91 \$0.227 10% 67 ● • 12/10/18 Pereiman Ronald O BO.DR Revion REV B \$2,299.992 12/11/18 \$1.244 \$0.40 \$444 \$422 • 0 12/13/18 Richard D CB.CCD Revion REV B \$1,992,737 12/11/18 \$2.72 33.53 12/11/18 \$2.72 33.53 12/11/18 \$2.72 33.73 33.71 33.71 33.71 33.71 33.71 33.71 33.71 33.71 33.71 33.71	000	+0.5	12/3/18 Field Joseph M	CB,DIR	Entercom Comms	ETM	В	\$3,911,020	12/13/18	\$ 6.52	\$6.38	19,450,688	3%	909
••• ·2 12/13/18 Foss Eric J CB,CEO Aramark ARMK B \$3,004,183 12/12/18 \$3,246 \$32,208 1,679,407 6% 7.915 •• 10/14/18 Brillings BO,DIR Second Sight Medical EYES JB* \$2,999,995 12/12/18 \$9,98 50,01 5% 40 13/18 51,88 \$9,00 56,001,45 1% 49,20 • 10/13/18 Finals Richard D CB,CEO Revion REV B \$1,998,208 12/13/18 57,17 57% 31,102 • 12/13/18 Stant Darge River Port & LC YRIV B \$1,687,437 12/13/18 5,00 \$3,72 339,435 New 642 • 12/12/18 Duda Donald W CED,DIR Methode Elect MEI B \$1,684,504 12/11/18 \$1,032 17,317,200 1% 1,456 • 11/12/18 Fasting DD Pirfiscos Rest GMM B \$1,645,943 12/11/18	000	0	12/11/18 Zell Samuel	CB,DIR	Equity Lifestyle Prop	ELS	OB	\$3,770,000	12/7/18	\$ 18.85	\$100.99	549,511	57%	9,064
● 12/14/18 Williams Gregg BO,DR Second Sight Medical EYES JB* \$2,999,992 12/12/18 \$ 0.92 \$0.91 36,255,772 10% 67 ● +1 10/3/18 Barings BDC BBDC BBDC BBDC BBDC AB \$2,398,785 12/13/18 \$ 90,175,448 0% 1.318 ● 10 12/13/18 Fain Richard D CB,CEO Royal Caribbean RCL B \$1,995,808 12/13/18 \$ 10,70 24,400 344% 22,381 ● +0 12/13/18 Kilestart Store \$ \$ \$ \$ \$ \$ \$ \$ 21,371 \$ \$ \$ \$ 3 7 \$ \$ \$ \$ 3 7 \$ \$ 3 \$ \$ 3 \$ \$ \$ 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	000	+0	11/14/18 Chai Tr	во	Exterran	EXTN	В	\$3,394,642	12/13/18	\$ 21.20	\$19.83	2,145,498	8%	717
+1 10/3/18 Barings BD,FO Barings BD,C BBDC AB \$2,988,785 12/13/18 \$ 9.88 \$9.60 \$58,600,145 1% 492 0 12/10/18 Perelman Ronald O BD,DR Revion REV B \$2,2203 12/11/18 \$ 16.05 \$10,70448 0% 1.316 0 12/10/18 Pereload \$10,915,800 \$11,71748 \$10,800 \$12,11748 \$10,800 \$12,11748 \$10,800 \$12,11748 \$10,800 \$12,11748 \$10,800 \$12,11748 \$10,800 \$12,11748 \$10,800 \$12,11748 \$10,800 \$12,11748 \$10,800 \$12,11748 \$10,800 \$12,11748 \$10,800 \$12,11748 \$10,800 \$10,91 \$22,930 \$10,91 \$22,19,800 \$10,91 \$22,19,800 \$10,91 \$22,19,800 \$16,81,41 \$11,818,313,02 \$17,317,800 \$16,800 \$11,7178 \$10,91 \$10,91 \$22,19,800 \$11,7178 \$10,91 \$21,900 \$11,7178 \$10,91 \$10,91	000	+2	12/13/18 Foss Eric J	CB,CEO	Aramark	ARMK	В	\$3,004,183	12/12/18	\$ 32.46	\$32.08	1,679,407	6%	7,915
O +0 12/10/18 Perelman Rould REV B \$2,329,203 12/11/18 \$24,21 \$24,95 90,175,448 0% 1,318 0 12/13/18 Pains Richard D CB,CEO Royal Caribbean RCL B \$1,995,808 12/13/18 \$105.60 \$107.09 24.400 344% 22.381 0 12/13/18 Weisenburger Randall JDIR Valero Energy VLO B \$1,818,375 12/11/18 \$7.74 \$7.30 53.717 87% 31,102 0 +0 12/12/18 Buda Donald CEO,DR Methode Electr MEI B \$1,665,474 12/11/18 \$10.93 \$10.91 2,219,500 7% 3,146 +1 11/26/16 Tiger Global Mg DIR GMS GMS \$11,852,451 12/11/18 \$10.93 \$10.91 2,219,500 7% 3,146 +1 10/31/18 Ross Ronald R DIR GMS GMS \$11,852,1512 12/11/18 \$16.81 \$14,24901	000	+0	12/14/18 Williams Gregg	BO,DIR	Second Sight Medical	EYES	JB*	\$2,999,992	12/12/18	\$ 0.92	\$0.91	36,255,772	10%	67
0 12/13/18 Fain Richard D CB,CEO Royal Caribbean RCL B \$1,995,808 12/13/18 \$105.60 \$107.09 24,400 344% 22.381 0 +0 12/13/18 Yearo Energy VLO B \$1,181,375 12/11/18 \$72.74 \$73.30 53,717 87% \$1,102 0 +0 12/12/18 Duda Donald W CEO,DR Mehode Electr MEI \$1,685,474 12/11/18 \$2.379 \$22.381 70.448 New 628 +3 11/20/18 Frankin Martin E DIR Platform Specialty Prod PAH 8 \$1,645,943 12/11/18 \$1.388 \$13.02 17,317.200 1% 1.456 +1 11/20/18 Tiger Global Mgt BO Surrun RUN 8 \$1,645,943 12/11/18 \$1.58 15.63 \$15.78 150.790 1% 1.456 +1 11/17/18 rmistoc Cap BO Del Friscos Rest DFRG \$1.551.512 12/14/18 \$1.661	000	+1	10/3/18 Barings	BO,FO	Barings BDC	BBDC	AB	\$2,988,785	12/13/18	\$ 9.88	\$9.60	58,600,145	1%	492
••••••••••••••••••••••••••••••••••••	000	+0	12/10/18 Perelman Ronald O	BO,DIR	Revlon	REV	В	\$2,329,203	12/11/18	\$ 24.21	\$24.95	90,175,448	0%	1,318
+0 12/14/18 Li Xangyao BO.CEO Yangtze River Port & LC YRIV B \$1,697,437 12/13/18 \$5.00 \$3.72 339,435 New 642 +0 12/12/18 Dua Donald W CEO.DIR Methode Electr MEI B \$1,665,474 12/11/18 \$1.093 \$10.91 2,219,500 7% 3,146 +1 11/20/18 Frankin Martin DIR Platform Specially Prod PAH B \$1,645,943 12/11/18 \$1.388 \$1.091 2,219,500 7% 3,146 +1 10/31/18 Ross Ronald R DIR GMS GMS B \$1,645,943 12/11/18 \$1.366,50 41.172,000 6% 217 +1 11/17/18 Amitice Cap BO Del Friscos Rest DFRG B \$1,51,512 12/11/18 \$1.461 \$1.42.3 1,550,619 8% 120 +1 11/19/18 Evantel DIR United Continental UAL B \$1,321,250 12/11/18 \$8.87.74 172,707 170 23,906 +0 12/10/18 Boggan Rober	000	0	12/13/18 Fain Richard D	CB,CEO	Royal Caribbean	RCL	В	\$1,995,808	12/13/18	\$ 105.60	\$107.09	24,400	344%	22,381
+0 12/14/18 Li Xiangyao BO,CEO Yangtze River Port & Lc YRV B \$1,697,437 12/13/18 \$5.00 \$3.72 339,435 New 642 +0 12/12/18 Duda Donald W CEO,DIR Methode Elect MEI B \$1,665,474 12/11/18 \$1.093 \$10.91 2,219,500 7% 3,146 +1 11/20/18 Franklin Martin E DIR Platform Specially Prod PAH B \$1,645,943 12/11/18 \$1.083 \$1.091 2,219,500 7% 3,146 +1 10/31/18 Ross Ronald R DIR GMS GMS B \$1,645,943 12/11/18 \$1.563 \$15.76 150,790 197% 650 +1 10/31/18 Ross Ronald R DIR GMS GMS B \$1,645,943 12/11/18 \$1.461 \$14.23 1,55,619 12/7 100 63% 120 12/11/18 \$1.461 \$14.23 1,55,619 % 120 12/11/18 \$1.461 \$14.23 1,55,619 % 120 12/11/18 \$1.61 \$1.61 \$1.62	000						В						87%	
+0 12/12/18 Dual W CEO.DIR Methode Electr MEI B \$1,685,474 12/11/18 \$ 23.79 \$22.38 70,848 New 828 +3 11/20/18 Franklin Martin E DIR Platform Specialty Prod PAH B \$1,645,943 12/11/18 \$1.083,310 27,17,200 7% 3,146 +1 11/26/18 Trage Global Mgt BO Sunrun RUN B \$1,645,943 12/11/18 \$1.083,910 27,17,200 1% 1,456 +1 10/31/18 Ross Ronald R DIR GMS GMS B \$1,642,640 12/11/18 \$1.563 \$15.78 150,790 197% 650 +1 11/19/18 Bornald R DIR GMS GMS S \$1,561,512 12/14/18 \$1.461 \$1.423 1,350,619 8% 23.906 +1 12/11/18 Stante TST B \$1,224,600 12/11/18 \$1.61 \$1.62 17,631,270 5% 75	000				••	YRIV	В						New	
+3 11/20/18 Franklin Martin E DIR Platform Specialty Prod PAH B \$1.648,350 12/10/18 \$10.93 \$10.91 2.219,500 7% 3.146 +1 11/26/18 Tiger Global Mgt BO Surrun RUN B \$1.645,943 12/11/18 \$1.88 \$13.02 17,317,200 1% 1.456 +1 10/31/18 Ross Ronald R DIR GMS GMS S1.551,512 12/14/18 \$1.643 \$1.641 \$1.423 1.360,619 8% 120 +0 11/7/18 Arratice Cap BO Del Friscos Rest DFRG B \$1.51,512 12/14/18 \$4.641 \$14.23 1.360,619 8% 120 +1 12/10/18 Stantar DIR United Continental UAL B \$1.321,250 12/1718 \$8 8.08 \$87.74 172,00 1% 23,906 +0 12/11/18 Borgan Robert W BO Achaogen AKAO B \$1.246,306 12/11/18 \$1.612 17.631,270 5% 75 75 12/12/18 16.12	000			CEO,DIR			В				\$22.38		New	
+1 11/26/18 Tiger Global Mgt BO Sunrun RUN B \$1,645,943 12/11/18 \$13.88 \$13.02 17,317,200 1% 1,456 +1 10/31/18 Ross Ronald R DIR GMS GMS B \$1,551,512 12/12/18 \$15.63 \$15.78 150,790 197% 650 +0 11/7/18 Armistice Cap BO Del Friscos Rest DFRG B \$1,551,512 12/14/18 \$6.46 \$6.50 4,172,000 6% 217 +1 11/19/18 Barl Part LP II BO XOMA XOMA S1,321,250 12/17/18 \$8.808 \$8.77 172,707 10% 23,906 +0 12/11/18 Cannell Cap BO TheStreet TST B \$1,226,306 12/11/18 \$2.05 \$5.611,430 13% 102 +0 12/12/18 Water Asset Mgt BO Cadiz CDZ B \$1,096,680 12/10/18 \$9.88 \$9.27 3,078,162 4% 227 +0 12/10/18 Raiseck David W DIR Rocyce Global Value Tr RGT B \$1,023,320 12/11/18	000					PAH	В							3.146
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	000	+0.5	12/11/18 Ross Jack	BO,CEO				\$673,769	12/10/18	\$ 0.55	\$0.20	1,225,034	New	
● ○ ○ +1 12/11/18 Riggs Arthur BO Lixte Biotechnology LIXT JB* \$630,000 12/7/18 \$ 0.50 \$0.95 6,110,000 26% 55	000	+2	12/13/18 Peterson Michael L	DIR	QCR	QCRH	В	\$670,294	12/13/18	\$ 33.51	\$33.34	251,477	9%	523
	000	+1	12/11/18 Riggs Arthur	во	Lixte Biotechnology	LIXT	JB*	\$630,000	12/7/18	\$ 0.50	\$0.95	6,110,000	26%	55

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

INSIDERINSIGHTS

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".

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Insid	lor	Rating				Trans	Total Purch	Latest Trans	Ave Puro		Recent	Subsequent	Delta %	Mkt Cap
Ratin		Date Insider Name	Title(s)	Company	Ticker	Type(s)*	Value	Date	Pric		Price	Holdings	0wn	(mm)
000	0	12/14/18 Nimbus Atlas	BO	Cumulus Media	CMLS	B		12/13/18		0.04	\$10.75	1,564,273	4%	177
000		10/25/18 Tang Kevin C	BO,CEO	Odonate Therap	ODT	В		12/12/18			\$15.12	25,544,676	0%	406
000		12/14/18 Bartlett Mark S	DIR	WillScot	WSC	В		12/13/18		.95	\$11.39	119,214	72%	1,234
000		11/16/18 Turkleson Don A	DIR	Tellurian	TELL	В		12/13/18		6.75	\$6.88	129,904	208%	1,655
000		9/17/18 Rankin Alfred M	CB,DIR	Hyster-Yale Materials	HY	AB		12/12/18		2.49	\$61.64	476,348	2%	1,021
000		9/17/18 Rankin Victoire G	0	Hyster-Yale Materials	HY	AB		12/12/18		2.49	\$61.64	476,348	2%	1,021
000		12/12/18 Privet Fd Mat	BO	Synalloy	SYNL	В		12/11/18		5.57	\$15.53	1,115,044	3%	138
000		12/14/18 Roberts Gary J	VP	KLX Energy Svs	KLXE	В	\$575,044			.68	\$23.76	333,318	8%	531
000	+1	12/6/18 Ecor1 Cap Fd Qual LP	во	Kura Oncology	KURA	В		12/13/18		3.90	\$14.03	4,220,729	1%	534
000	+0.5	12/11/18 Riley Bryant R	BO,CB	B Riley Finl	RILY	В		12/10/18			\$19.23	4,396,283	1%	511
000		11/13/18 Scripps Eaton M	BO	E W Scripps Co	SSP	AB		12/14/18		6.70	\$16.32	1,068,377	3%	1,317
000		12/14/18 Boyd William S	BO,CB	Boyd Gaming	BYD	OB		12/12/18			\$23.92	19,422,464	0%	2,684
000		12/11/18 Wallman Richard F	DIR	Wright Medical NV	WMGI	В		12/10/18		5.83	\$27.52	126,578	19%	3,442
000		12/11/18 Schwartzberg Gil	BO	Lixte Biotechnology	LIXT	JB*	\$520,000			0.50	\$0.95	1,895,068	122%	55
000		12/13/18 Garriott Huntley	PR	Live Oak Banc	LOB	В		12/13/18		1.73	\$14.84	65,000	117%	596
000		12/12/18 Maxwell W Keith III	BO,DIR	Spark Energy	SPKE	В	\$514,528			3.69	\$8.47	2,773,066	2%	295
000		10/30/18 Istar	BO	Safety Inc & Growth	SAFE	AB		12/13/18		9.15	\$19.23	15,139,735	0%	351
000		12/13/18 Graham Ginger L	DIR	Genomic Health	GHDX	OB		12/11/18			\$69.34	51,648	92%	2,505
000		12/13/18 Stone Larry D	DIR	At Home	HOME	В		12/11/18		.13	\$19.10	29,665	314%	1,214
000		11/14/18 Defranco James	DIR,VP	DISH Network	DISH	AB		12/10/18			\$30.65	2,647,058	1%	14,334
000		11/20/18 Hoskins Alan R		Energizer	ENR	В		12/6/18		6.00	\$49.59	223,929	5%	2,970
000		11/19/18 Barris Peter J	BO	AVEO Pharm	AVEO	В		12/11/18		.98	\$1.95	40,730,876	1%	244
000		11/19/18 Mott David M	BO	AVEO Pharm	AVEO	B		12/11/18		.98	\$1.95	40,730,876	1%	244
000		11/19/18 Makower Joshua	BO	AVEO Pharm	AVEO	B		12/11/18		.98	\$1.95	40,730,876	1%	244
000		11/19/18 Sandell Scott D	BO	AVEO Pharm	AVEO	В		12/11/18		.98	\$1.95	40,730,876	1%	244
000		11/19/18 Baskett Forest	BO	AVEO Pharm	AVEO	В		12/11/18		.98	\$1.95	40,730,876	1%	244
000		11/19/18 Sonsini Peter W	BO	AVEO Pharm	AVEO	В		12/11/18		.98	\$1.95	40,730,876	1%	244
000		11/19/18 Florence Anthony A Jr		AVEO Pharm	AVEO	В		12/11/18		.98	\$1.95	40,730,876	1%	244
000		11/19/18 Makhzoumi Mohamad	BO	AVEO Pharm	AVEO	В		12/11/18		.98	\$1.95	40,730,876	1%	244
000		11/19/18 Growth Equity Ops lv	BO	AVEO Pharm	AVEO	В		12/11/18		.98	\$1.95	40,730,876	1%	244
000		11/21/18 Ajdler Arnaud	DIR	Hill Intl	HIL	В		12/13/18		3.04	\$3.00	5,547,756	3%	167
000		12/4/18 Loucks Brian Andrew	PR	Keurig Dr Pepper	KDP	В		12/10/18		5.00	\$25.92	102,963	20%	36,006
000		10/25/18 Jolson Joseph A	BO,CEO	JMP	JMP	AB		12/13/18		1.55	\$4.33	9,787,227	1%	92
000		12/10/18 Hanson Bradley C		Meta Finl	CASH	В	\$428,600				\$20.02	369,694	6%	789
000		12/10/18 Banister Gaurdie E Jr	DIR	Tyson Foods	TSN	В		12/6/18		3.01	\$55.30	36,322	23%	20,191
000		10/22/18 Niswonger Scott M	DIR	First Horizon Natl	FHN	В		12/10/18			\$13.56	714,451	4%	4,393
000		11/21/18 Chang Mike F	BO,CEO	Alpha & Omega Semi	AOSL	AB	\$361,534			9.93	\$10.17	4,162,676	1%	242
000		12/11/18 Schindler Troy L	00,VP	HighPoint Res	HPR	B		12/10/18		2.88	\$2.58	150,000	500%	548
•••		12/14/18 Sabo Elias	0	Compass Diversified	CODI	В		12/12/18		.22	\$13.59	585,549	4%	814
000		11/13/18 Landmark Div	BO,DIR	Landmark Infra LP	LMRK	B		12/10/18			\$12.97	3,356,771	1%	328
000		11/13/18 Schnabel Susan C	DIR	Versum Materials	VSM	B		12/11/18			\$27.79	57,754	26%	3,030
000		12/14/18 Burns Gordon M	0	Compass Diversified	CODI	B,JB*		12/14/18			\$13.59	100,250	25%	814
000		12/12/18 Seidman Lawrence B	BO,DIR	MSB Finl	MSBF	B		12/13/18			\$17.60	476,123	4%	97
000		12/13/18 Frankola Jim	CFO	Cloudera	CLDR	OB		12/11/18		2.47	\$12.34	798,523	18%	1,894
000		12/12/18 Laikin Robert J	DIR	Washington Prime	WPG	В		12/11/18		5.09	\$6.15	69,200	246%	1,144
•••		12/13/18 Williams William L III		Live Oak Banc	LOB	В		12/12/18		1.86	\$14.84	48,100	71%	596
000		12/14/18 Singer Karen	BO	SeaChange Intl	SEAC	В		12/13/18		.34	\$1.34	4,018,452	6%	48
000		12/13/18 Martin R Brad	DIR	Chesapeake Energy	CHK	B		12/11/18		2.65	\$2.33	802,900	16%	2,129
000	0	11/13/18 Peirce Mary	BO	E W Scripps Co	SSP	AB		12/12/18			\$16.32	446,421	4%	1,317
000		11/13/18 Granado Corina S	BO	E W Scripps Co	SSP	AB		12/11/18			\$16.32	408,306	4%	1,317
	v			serippo oo	001		<i>~_</i> 01,000	,, 10	Ψ II		Ψ10.0Z	+00,000	175	7,017

InsiderInsights

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	Latest	Ave.			Delta	Mkt
Insider		Rating				Trans	Purch	Trans	Purch	Recent	Subsequent	%	Сар
Rating*		Date Insider Name	Title(s)	Company	Ticker	Type(s)*	Value	Date	Price	Price	Holdings	Own	(mm)
000 -0	0	11/23/18 Walton Alice L	BO	Walmart	WMT	S	\$147,634,336	12/12/18	\$ 93.81	\$91.85	43,537,696	-3%	266,848
000 -(0	11/23/18 Walton Jim C	BO	Walmart	WMT	S	\$147,634,336	12/12/18	\$ 93.81	\$91.85	43,537,696	-3%	266,848
000 -0	0	11/23/18 Walton S Robson	BO,DIR	Walmart	WMT	S	\$147,634,336	12/12/18	\$ 93.81	\$91.85	43,537,696	-3%	266,848
000 0)	11/16/18 General Electric	BO	NeoGenomics	NEO	JS*	\$130,021,744	12/14/18	\$ 12.00	\$13.25	-	All	1,238
000 -0.	.5	12/10/18 Keane Investor	BO	Keane	FRAC	JS*	\$56,555,952	12/6/18	\$ 10.77	\$8.96	51,668,176	-9%	938
000 -0	0	12/6/18 Duffield David A	BO,DIR	Workday	WDAY	AS	\$50,009,936	12/7/18	\$ 161.50	\$162.03	109,068	-74%	35,323
000 -(0	12/12/18 Horowitz Benjamin A	DIR	Okta	OKTA	S	\$40,437,748	12/12/18	\$ 65.20	\$66.81	-	All	7,378
000 -0	0	11/9/18 Mckelvey James Morgan J	r DIR	Square	SQ	AS	\$25,838,314	12/12/18	\$ 64.60	\$62.14	72,275	-85%	25,695
000 -0	0	12/6/18 Williams Evan Clark	DIR	Twitter	TWTR	AS	\$24,617,872	12/13/18	\$ 36.08	\$35.87	1,274,272	-35%	27,306
000 -0	0	11/21/18 Orbimed Adv	DIR	Inspire Medical Sys	INSP	JS*	\$23,115,428	12/11/18	\$ 37.60	\$41.36	-	All	947
000 -0	0	11/21/18 Khuong Chau Quang	DIR	Inspire Medical Sys	INSP	JS*	\$23,115,428	12/11/18	\$ 37.60	\$41.36	1,829,449	-25%	947
000 -0	0	12/3/18 Biglari Sardar	BO	Cracker Barrel	CBRL	S	\$22,684,180	12/13/18	\$ 175.03	\$171.43	4,364,476	-3%	4,120
000 0)	11/14/18 Yale University	DIR	JBG SMITH Prop	JBGS	S	\$18,172,518	12/12/18	\$ 39.19	\$37.42	7,909,069	-6%	4,525
000 -0	0	12/10/18 Volpi Michelangelo	DIR	Zuora	ZUO	S	\$13,151,860	12/12/18	\$ 18.75	\$18.24	1,332	-100%	1,979
000 -0	0	11/9/18 Dorsey Jack	BO,CB	Square	SQ	AS	\$12,849,406	12/12/18	\$ 62.35	\$62.14	-	All	25,695
000 0)	12/11/18 Subin Neil S	во	ID Sys	IDSY	JS*	\$12,244,581	12/7/18	\$ 5.80	\$5.29	-	All	96
000 0)	12/6/18 Rennes Fondation	во	Ebix	EBIX	JS*,S	\$9,260,032			\$43.41	6,631,962	-3%	1,357
000 0)	11/28/18 Steinert Langley	BO,CB	CarGurus	CARG	AS	\$8,828,232	12/12/18	\$ 35.62	\$34.76	21,474,205	-1%	3,826
000 -0	0	12/13/18 Nashat Amir	DIR	Fate Therap	FATE	S	\$8,511,873			\$15.88	4,356,316	-10%	1,025
000 -0		9/13/18 Mitchell E Drew	BO	Capital City Bank	CCBG	JS*	\$8,029,915			\$24.80	1,000,000	-24%	423
000 -0		9/13/18 Smith Douglas Williams	BO	Capital City Bank	CCBG	JS*	\$8,029,915			\$24.80	1,000,000	-24%	423
000		11/19/18 Sandberg Sheryl		Facebook	FB	AS	\$7,751,766			\$144.06	1,235,157	-4%	413,998
000 -0		12/14/18 Forest Manor N V	BO	Coda Octopus	CODA	JS*	\$7,193,290			\$5.90	-	All	62
000	-	10/16/18 Cabral Timothy S	CFO	Veeva Sys	VEEV	AS	\$6,777,045			\$91.39		All	13,279
000		11/14/18 Winn Stephen T	BO,CB	RealPage	RP	AS	\$6,609,242			\$48.11	14,154,587	-1%	4,518
000		11/14/18 Seren Cap	BO	RealPage	RP	AS	\$6,609,242			\$48.11	14,154,587	-1%	4,518
0000 0		12/13/18 Baker Bros Adv	BO,DIR	Genomic Health	GHDX	S	\$6,306,394			\$69.34	51,686	-62%	2,505
000 -1			BO,DIK BO			S							
000 0		10/4/18 Scopia Cap Mgt		Acorda Therap	ACOR		\$6,029,891			\$16.18	12,126,284	-3%	770
000	-	11/26/18 Kellogg W K Fdn Tr	BO	Kellogg	K	AS	\$5,993,980			\$60.36	65,231,840	0%	20,946
		11/30/18 Chase William J	FO,VP	AbbVie	ABBV	AS	\$5,400,000			\$85.61	104,863	-36%	128,776
* • • •		11/13/18 Zuk Nir		Palo Alto Networks	PANW	AS	\$5,324,252	12/7/18	\$ 177.48	\$184.03	1,053,760	-3%	17,461
000		12/13/18 Coppola Arthur M	CEO	Macerich Co	MAC	S	\$5,256,593			\$47.77	-	All	6,738
A A A		12/13/18 Sg Vtb	BO	Turtle Beach	HEAR	AS	\$5,016,512			\$16.49	1,793,269	-14%	235
^ ~ ~ ~		11/14/18 Lebow Bennett S	DIR	Vector	VGR	S	\$4,712,000	12/7/18	\$ 11.78	\$10.37	1,195,306	-25%	1,461
000		12/11/18 De Geus Aart	CB,CEO	Synopsys	SNPS	AS	\$4,466,818			\$87.65	188,285	-21%	13,024
000 -0		12/12/18 Shmunis Vladimir	BO,CB	RingCentral	RNG	AS	\$4,414,508			\$82.47	263,751	-16%	6,625
000 0		12/13/18 Gendell Jeffrey L	DIR	Patrick Ind	PATK	S	\$4,277,045			\$30.28	2,295,482	-5%	727
000 -0		10/17/18 Benioff Marc	CB,CEO	salesforcecom	CRM	AS	\$3,477,186			\$137.04	96,701,232	0%	104,836
		11/19/18 Mansueto Joseph D	BO,CB	Morningstar	MORN	AS	\$3,438,167			\$114.42	45,468,662	0%	4,881
	0	12/10/18 Guillemin Evan	DIR	Mesa LABS	MLAB	S	\$3,190,780	12/10/18	\$ 212.72	\$207.33	48,468	-24%	799
	0	11/16/18 Garner Denise	VP	Clorox Co	CLX	S	\$3,003,434	12/7/18	\$ 163.53	\$164.52	9,948	-65%	21,001
000 -(0	11/9/18 Zhang Jack Y	BO,CEO	Amphastar Pharm	AMPH	S	\$2,851,052	12/13/18	\$ 21.29	\$20.32	7,327,679	-2%	937
000 -(0	11/9/18 Applied Physics & Chem	BO	Amphastar Pharm	AMPH	S	\$2,851,052	12/13/18	\$ 21.29	\$20.32	7,327,679	-2%	937
	0	11/13/18 O Neill Myles	OO,PR,VF	PEli Lilly & Co	LLY	AS	\$2,822,959	12/10/18	\$ 112.92	\$111.93	50,954	-33%	118,570
000 -(0	10/2/18 Weisler Dion J	CEO,DIR	HP	HPQ	AS	\$2,669,619	12/11/18	\$ 22.99	\$22.01	1,109,583	-9%	34,192
000 -0	0	11/30/18 Su Lisa T	CEO,DIR	Adv Micro Devices	AMD	AS	\$2,616,250	12/6/18	\$ 20.93	\$19.90	2,182,130	-5%	19,888
000 -0	0	11/8/18 Tully Sean	FO	CME	CME	S	\$2,587,770	12/12/18	\$ 191.69	\$187.64	23,328	-37%	67,133
000 0)	11/19/18 Jones Mark Evan	BO,CEO	Goosehead Insurance	GSHD	AS	\$2,579,714	12/13/18	\$ 27.22	\$27.39	6,993,124	-1%	994
000 0)	11/19/18 Mark & Robyn Jones Desc	BO	Goosehead Insurance	GSHD	AS	\$2,579,714	12/13/18	\$ 27.22	\$27.39	6,993,124	-1%	994
000 0)	11/19/18 Jones Robyn Mary Eliz	BO,DIR	Goosehead Insurance	GSHD	AS	\$2,579,714	12/13/18	\$ 27.22	\$27.39	6,993,124	-1%	994

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



InsiderInsights

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	r	Rating				Trans	Purch	Trans	Purch	Recent	Subsequent	%	Сар
Rating	*	Date Insider Name	Title(s)	Company	Ticker	Type(s)*	Value	Date	Price	Price	Holdings	Own	(mm)
000	-0.5	12/6/18 Duda Kenneth	CTO,VP	Arista Networks	ANET	AS	\$2,506,082	12/10/18	\$ 227.83	\$220.41	798,568	-1%	16,625
000	0	11/28/18 Chrzan Oliver lan	CTO	CarGurus	CARG	AS	\$2,479,400	12/12/18	\$ 35.42	\$34.76	1,892,906	-4%	3,826
000	0	12/14/18 Boyd William R	DIR,VP	Boyd Gaming	BYD	S	\$2,419,400	12/13/18	\$ 24.19	\$23.92	2,178,132	-4%	2,684
000	-0	9/18/18 Hudspith William Neil	OO,PR	Docusign	DOCU	AS	\$2,395,969	12/12/18	\$ 42.69	\$42.89	467,727	-11%	7,088
000	-0	12/10/18 Diouane Marc	PR	Zuora	ZUO	S	\$2,352,393	12/6/18	\$ 18.03	\$18.24	-	All	1,979
000	0	10/26/18 Stoecker Dean	CB,CEO	Alteryx	AYX	AS	\$2,342,890	12/6/18	\$ 58.57	\$64.42	-	All	3,954
000	-0	12/6/18 Ryan Kevin P	DIR	Mongodb	MDB	AS	\$2,164,199	12/12/18	\$ 90.17	\$90.58	3,133	-88%	4,855
000	-0	12/4/18 Lowe William M Jr	CFO,VP	KEMET	KEM	AS	\$1,898,832	12/11/18	\$ 18.99	\$17.38	205,332	-33%	998
000	0	12/14/18 Sagansky Jeffrey	DIR	WillScot	WSC	S	\$1,812,000	12/12/18	\$ 12.08	\$11.39	2,571,539	-6%	1,234
000	-0	9/11/18 Moyer James C	DIR	Monolithic Power	MPWR	AS	\$1,802,346	12/10/18	\$ 120.16	\$118.62	585,921	-2%	5,031
000	-0	11/5/18 Westfall Nicholas Michael	VP	Chemed	CHE	S	\$1,722,691	12/11/18	\$ 301.75	\$287.88	16,343	-26%	4,610
000	-0	12/10/18 Bridgebio Pharma	BO	Eidos Therap	EIDX	S	\$1,637,930	12/10/18	\$ 13.56	\$16.27	45,094,108	0%	598
000	0	12/12/18 Seaberg Karen	DIR	MGP Ingredients	MGPI	AS	\$1,627,379	12/12/18	\$ 60.58	\$56.51	2,527,162	-1%	953
000	-0	11/21/18 Miller Adam L	CEO,DIR	Cornerstone OnD	CSOD	AS	\$1,509,529	12/6/18	\$ 51.70	\$52.51	3,968,925	-1%	3,078
000	-0	11/30/18 Gonzalez Richard A	CB,CEO	AbbVie	ABBV	AS	\$1,495,438	12/11/18	\$ 88.75	\$85.61	286,203	-6%	128,776
000	0	12/10/18 Southwell David P	DIR	Rocket Pharm	RCKT	S	\$1,462,344	12/13/18	\$ 15.15	\$15.32	229,088	-30%	680
000	-0	10/31/18 Derosa Michael Lawrence	DIR	TPI Composites	TPIC	AS	\$1,449,102	12/11/18	\$ 26.21	\$24.77	3,386,344	-2%	855
000	0	12/11/18 Mccarthy James K	BO,DIR	Novume Solutions	NVMM	JS*	\$1,405,169	12/10/18	\$ 0.52	\$0.62	2,725,835	-50%	12
000	-0	10/31/18 Weiss Daniel G	DIR	TPI Composites	TPIC	S	\$1,323,178	12/13/18	\$ 26.21	\$24.77	1,932,028	-3%	855
000	-0	12/12/18 Cohen Harry D	CIO,MD	Clearbridge MLP & Mid	CEM	S	\$1,323,040	12/10/18	\$ 11.25	\$11.31	3,477	-97%	796
000	-0	12/6/18 Hughes Robert W	PR	Everbridge	EVBG	AS	\$1,280,653	12/12/18	\$ 54.04	\$53.55	26,599	-47%	1,588
000	-0	11/6/18 Bluedorn Todd M	CB,CEO	Lennox Intl	LII	AS	\$1,276,234	12/12/18	\$ 210.22	\$213.88	122,422	-5%	8,616
000	-0	12/4/18 Merritt Douglas	CEO,DIR	Splunk	SPLK	AS	\$1,270,768	12/12/18	\$ 106.94	\$105.26	219,649	-5%	15,556
000	-0	10/22/18 Babinec Martin	DIR	TriNet	TNET	AS	\$1,268,776	12/6/18	\$ 42.29	\$42.13	679,869	-4%	2,968
000	-0	12/14/18 Anzalone Christopher R	CEO,DIR	Arrowhead Pharm	ARWR	AS	\$1,266,300	12/12/18	\$ 14.07	\$14.32	1,632,455	-5%	1,321
000	-0	11/8/18 Marcus Joel S	CB,DIR	Alexandria RE Equities	ARE	S	\$1,262,600	12/11/18	\$ 126.26	\$122.50	537,255	-2%	13,172
000	-0.5	12/13/18 Acacia Research	во	Veritone	VERI	S	\$1,243,539	12/12/18	\$ 6.22	\$5.67	1,419,520	-12%	110
000	-0	9/21/18 Verity John R	0	Exxon Mobil	ХОМ	S	\$1,219,559	12/11/18	\$ 76.94	\$75.58	146,350	-10%	319,991
000	-0	11/9/18 Corstar	во	CorVel	CRVL	AS	\$1,218,211	12/13/18	\$ 65.84	\$64.26	13,922,349	0%	1,205
000	-0	11/27/18 West Steven M	DIR	Cisco Sys	CSCO	S	\$1,199,503	12/12/18	\$ 47.98	\$45.82	47,225	-35%	206,005
000	-0	12/10/18 Ramirez Carlos J	VP	Evertec	EVTC	S	\$1,169,005	12/6/18	\$ 26.34	\$27.42	67,409	-40%	1,995
000	0	11/14/18 Maduck Sean	0	Corcept Therap	CORT	S	\$1,140,366	12/12/18	\$ 19.01	\$16.11	20,024	-75%	1,860
000	-0	11/2/18 Flatley Jay T	DIR	Illumina	ILMN	AS	\$1,102,629	12/12/18	\$ 334.13	\$326.46	371,559	-1%	47,990
000	-0	12/10/18 Vizcarrondo Miguel	VP	Evertec	EVTC	S	\$1,093,200	12/13/18	\$ 27.33	\$27.42	155,887	-20%	1,995
000	0	12/12/18 Water Asset Mgt	во	Cadiz	CDZI	S	\$1,092,240	12/10/18	\$ 9.84	\$9.27	2,967,162	-4%	227
000	-0	12/13/18 Rowe Zane	CFO,VP	VMware	VMW	S	\$1,073,020	12/12/18	\$ 165.08	\$158.58	89,276	-7%	65,001
000	-0	11/26/18 Koch C James	BO,CB	Boston Beer	SAM	AS	\$1,030,975	12/12/18	\$ 275.00	\$269.03	211,378	-2%	3,126
000	0	11/29/18 Riney T Richard	GC,VP	Ventas	VTR	AS	\$1,018,940	12/6/18	\$ 65.00	\$62.56	133,453	-11%	22,301
000	-0	12/6/18 Tansill Brendan F	PR	EVO Payments	EVOP	S	\$1,002,343	12/11/18	\$ 25.12	\$24.05	-	All	1,951
000	0	11/20/18 Shah Niraj	BO,CEO	Wayfair	W	AS			\$ 106.83	\$103.29	84,780	-10%	9,332
000	0	11/16/18 Sands Gregory P	DIR	QuinStreet	QNST	S			\$ 15.95	\$15.93	-	All	785
000	0	11/20/18 Conine Steven	BO,DIR,F	Wayfair	W	AS			\$ 106.76	\$103.29	85,670	-10%	9,332
000	-0	12/14/18 Levenson Ryan	DIR	Great Lakes Dredge	GLDD	S		12/14/18		\$7.31	3,021,625	-4%	457
000		11/19/18 Insoft Steven J	0	Omega Healthcare	OHI	AS			\$ 37.25	\$36.70	315,720	-7%	7,366
000	-0	12/4/18 Sullivan Godfrey	DIR	Splunk	SPLK	AS			\$ 104.24	\$105.26	205,905	-4%	15,556
000	0	11/30/18 Hicks Thomas O Jr	DIR	Resolute Energy	REN	S			\$ 32.75	\$30.68	77,242	-26%	711
000	-0	11/5/18 Jorgensen Blake J	CFO,COC	Electronic Arts	EA	AS			\$ 85.03	\$80.16	195,665	-5%	24,219
000		11/21/18 Stowe Richard H	DIR	HMS	HMSY	S			\$ 34.50	\$31.91	72,437	-26%	2,678
000		11/14/18 Vanderploeg Martin J	BO,CEO	Workiva	WK	AS			\$ 34.62	\$35.10	500,000	-5%	1,539
000		11/13/18 Klarich Lee	VP	Palo Alto Networks	PANW	AS			\$ 185.00	\$184.03	327,483	-1%	17,461
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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"

Instance Trans			-			-					
Retain Date Index Tipes Date Proce Hold mag Imm Omm 0 0 11/317 Greene John Winand Jr O Nexdecade NEXT 3 12/318 84.7 51.02.06.583 51.9 20 0 0 7016 Aphra Halfings Inc BO Onos5ee Medical ONCS 3 12/318 84.77 10.00.000 44 2.440 0 +1 12/1178 Born Rest Markade Find BO Like Blotchnology LDT 3 12/216 80.95 5.650.000 55 100 0 +1 12/1178 Born Rest Markade TTRS 12/216 81.45 5.342.85 7.650 0 0 12/1174 Singer Area BO Restrict Area 12/2118 81.65 5.342.85 4.400 0 0 62/318 Kolar Keen BO Camping World CMH 3 12/2118 5.85.000 1.301 85.95 4.60.00 10/2116						-		- ·			10-Day
0 31 12/11/1 61.37 46.19.720 57.7 280 0 0 11/317 Greene John Winand Jr 0 Nextdecade NEXT 3 12/2118 46.17 10.266.553 519 20 0 0 17/317 Greene John Winand Jr 0 Nextdecade NEXT 3 12/2118 44.17 10.266.553 519 20 0 0 17/317 Bernark BO NK Rea GRA 3 12/2118 40.77 10.266.553 519 10 0 12/21118 Greene Care GRA 3 12/2118 51.854.500 57 500 0 12/21118 Greene Care TS 12/2118 51.454.51.201 11.13 11.134.13 3.776.98.99 48 400 0 12/21118 Singer Karen BO Careping World CWH 3 12/2118 51.454.51.207.01 11.130 0 10.14718 Singer Karen BO Careping W		0	Titlo	Compony	Tickor						
O 0 11/3/17 Greene John Withund Jr O Netdetcade NEXT 3 12/4/18 44.75 10/286.553 519 20 0 0 70/16 Aphra Haldings Inc BO OncoSee Medical ONCS 3 12/8/16 40.77/16 50.757 4.101 700 0 11/21/16 Greenberg Robert BO Likte Blockhovlogy LIXT 3 12/8/16 40.93.569 7 50.00 0 12/11/16 Strender T BO Remark MARK 3 12/9/16 81.06 57.50.00 55.91 100 10.21 18.80 0 0.12/11/18 Singar Karan BO Theorem 13/9 10.20 18.80 10.00 10.01 84.42 3.102.673 91 12.0 18.90 48 400 10.01 84.42 3.102.673 91 12.0 10.00 10.11/16 81.42 3.102.673 91 12.0 10.00 11.01.01.16 80.01 2.0.20	0.00								U	,,	
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O 12/10/18 40 North Lafaude Fund BO WR Grace GRA 3 12/10/18 431.22 6.898.975 4,101 700 O 11 21/11/18 Genemberg Robert BO Like Blockchrology Lixt 3 12/11/18 51.65 6.500.00 55 100 O 0 12/11/18 Camena't MARK 3 12/11/18 S1.65 4.984.210 102 1.830 O 0 12/11/18 Stanmel Capital BO The SNeed TST 3 12/21/18 S1.43 3.795.99 4.400 O 0 62/116 Karan BO Camping World CWH 3 12/21/18 S1.43 3.795.99 4.400 O 0 62/16 Tuimos BO Camping World CWH 3 12/21/18 S1.43 3.702.873 91 1.30 O 0 62/16 Tuimos BO Camping World CWH 22/26.481 100 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
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O -9 12/5/17 Les Ernest T BO Remark MARK 3 12/4/18 S1:56 5,343,569 57 500 0 -0 12/11/16 Scannell Capital BO The Street 131 12/6/18 S1:56 5,343,569 57 500 0 0 Scannel Capital BO The Street 13 12/0/18 S2:05 4,484,210 102 1.830 0 0 62/216 Koter Krein DIR Avadel Pharm PLC AVDL 3 12/17.18 52.43 3,102,673 91 120 0 0 3/15/16 Tu James BO Canging World CWHA 3 12/17.18 53.43 50.61 1,301 0 11/16/16 Calon Cotopus COLDA 3 12/17.18 54.35 514.516 7.667 2.270 0 11/16/16 Gamini Noole BO Hamiton Lane HLNE 3 12/17.18 53.345.64 1.303						-					
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O -0 12/14/18 Signer Karen BO SeaChange htl SEAC 3 12/11/18 \$1.34 3.795.999 44 400 O -1 11/16/18 Abrame Capital Management L P BO SeaChange htl CAmping World C/W1 3 12/11/18 \$1.34 3.795.999 44 400 O -1 11/16/18 Kewin DIR Avadel Pharm PLC AVAD 3 12/11/18 \$1.42 3.787.00 1.301 O -0 3/16/16 Tua Ames BO Code Octopus CODA 3 12/1718 \$1.24 91.22 61.21 61.74 32.27 -0 0 12/14/18 Sand 12/14 32.83 38.648 1.703 190 -0 11/15/16 Giannin Netra BO Hamitton Lane HLNE 3 12/118 \$3.395 363.648 1.703 190 -1 11/15/16 Giannin Netra BO Hamitton Lane HLNE 3											
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Do Do <thdo< th=""> Do Do Do<!--</td--><td></td><td>6/25/18 Kotler Kevin</td><td></td><td>Avadel Pharm PLC</td><td></td><td></td><td></td><td>\$2.45</td><td>3,102,673</td><td></td><td></td></thdo<>		6/25/18 Kotler Kevin		Avadel Pharm PLC				\$2.45	3,102,673		
O -0 8/8/18 Kleinman Scott DIR Athene ATH 3 12/5/18 \$40.28 514,516 7,667 2,270	000 +0	3/16/16 Tu James	BO	Energy Focus	EFOI	3	11/30/18	\$0.81	2,126,848	10	30
NR Colory Credit Real Estate CLNO 3 1/2/3/16 \$1/2/3/17 \$1/2/3/16 \$1/	000 -0	12/14/18 Sandy Hills Bv	BO	Coda Octopus	CODA	3	12/12/18	\$5.90	1,274,972	62	10
0 11/15/18 Giannini Noole BO Hamilton Lane HLNE 3 12/13/18 \$33.95 363.648 1.703 190 0 11/15/18 Giannini Kyera BO Hamilton Lane HLNE 3 12/13/18 \$33.95 363.648 1.703 190 0 +1 12/13/18 Wyera HR Intrepid Potash IPI 3 12/4/18 \$33.95 363.648 1.703 190 0 +1 12/13/18 Wyera HR Intrepid Potash IPI 3 12/4/18 \$82.99 125.039 377 580 0 1/12/18 Conz Richard TO,VP Magnegas Applied Tchnigy Sit MNGA 3 12/5/18 \$1.55 79.763 172 5.110 0 -0 11/2/18 Conz Richard VP MMedx MDXG 3 12/5/18 \$1.55 79.763 172 5.110 0 -0 11/2/18 Stotary MDXG 3 12/3/18 \$32.23 <t< td=""><td>0-00</td><td>8/8/18 Kleinman Scott</td><td>DIR</td><td>Athene</td><td>ATH</td><td>3</td><td>12/5/18</td><td>\$40.28</td><td>514,516</td><td>7,667</td><td>2,270</td></t<>	0-00	8/8/18 Kleinman Scott	DIR	Athene	ATH	3	12/5/18	\$40.28	514,516	7,667	2,270
O 11/15/18 Gammin Kyera BO Hamilton Lane HLNE 3 12/13/18 \$33.95 363.048 1,705 190 • 11/15/18 Gammin Kyera BO Hamilton Lane HLNE 3 12/13/18 \$33.95 363.048 1,703 190 • 40 5/15/18 Porpar Kenneth VP ADT ADT 3 12/1/18 \$53.95 363.048 1,703 1890 • 0 11/12/18 Corpar Kenneth VP ADT ADT 3 12/1/18 \$53.95 363.048 1,703 62.70 • 11/12/18 Corpar Kenneth VP ADT ADT 3 12/1/18 \$50.27 60.000 37 6.270 • 11/12/118 Young Dennis SO,VP Sammina SANM 3 12/3/18 \$1.55 60.180 172 5,110 • 11/13/18 Saurat Jeffrey Ryan OO,VP Abb/vie ABBV 3 12/10/18	NR	NR Colony Capital Inc	BO	Colony Credit Real Estate	CLNC	3	12/3/18	\$17.00	461,422	2,174	320
b 11/11/18 20/14 11/11/18 11/11/11 11/11/18 11/11	000 0	11/15/18 Giannini Nicole	BO	Hamilton Lane	HLNE	3	12/13/18	\$33.95	363,648	1,703	190
+0 5/15/18 Porpora Kenneth VP ADT ADT 3 12/1/18 \$6.82 96.528 5.160 1,930 0 1/12/18 Conz Richard TO,VP Magnegas Applied Tchnigy Sit MNGA 3 12/1/18 \$0.27 80,000 37 6,270 +0 2/28/18 Landy Mark VP MiMedx MDXG 3 12/5/18 \$1.55 79,763 172 5,110 -0 11/21/18 Young Dennis SO,VP Sammina SAMM 3 12/5/18 \$24.37 41,809 1,664 360 -0 11/20/18 Sexent Jeffrey Ryan OQ,VP AbbVie ABBV 3 12/10/18 \$85.61 29,478 128,776 6,520 -0 11/30/18 Sexent Jeffrey Ryan OQ,VP AbbVie ABBV 3 12/1/18 \$20.22 25,188 178 10 -0 8/27/18 Katten Ralph R Dil First Business Finl FBIZ 3 12/3/18 <t< td=""><td>000 0</td><td>11/15/18 Giannini Kyera</td><td>BO</td><td>Hamilton Lane</td><td>HLNE</td><td>3</td><td>12/13/18</td><td>\$33.95</td><td>363,648</td><td>1,703</td><td>190</td></t<>	000 0	11/15/18 Giannini Kyera	BO	Hamilton Lane	HLNE	3	12/13/18	\$33.95	363,648	1,703	190
0 1/12/18 Conz Richard TO,VP Magnegas Applied Tchnigy Sit MNGA 3 12/1/18 \$0.27 80.000 37 6,270 0 +0 2/28/18 Landy Mark VP MiMedx MDXG 3 12/5/18 \$1.55 79,763 172 5,110 0 +0 2/28/18 Turner Scott M OO,VP MiMedx MDXG 3 12/5/18 \$1.55 60,180 172 5,110 0 -0 11/21/18 Young Dennis SO,VP Sammina SANM 3 12/3/18 \$24.37 41.809 1.664 360 0 11/6/16 Gawonski Grant VP Gates Industrial PLC GTES 3 12/10/18 \$13.97 30.955 4.049 570 0 0 N1/21/18 Katen Ralp R DIR First Business Finl FBIZ 3 12/1/18 \$12.97 20.245 971 400 0 -0 8/27/18 Boedeker Kenneht W VP	●OO +1	12/13/18 Wyatt Erica	HR	Intrepid Potash	IPI	3	12/4/18	\$2.89	125,039	379	580
+0 2/28/18 Landy Mark VP Milkedx MDXG 3 12/5/18 \$1.55 79,763 172 5,110 +0 2/28/18 Turner Scott M OO,VP Milkedx MDXG 3 12/5/18 \$1.55 60,180 172 5,110 -0 11/2/18 Stump Dennis SO,VP Sammina SAMM 3 12/3/18 \$24.37 41.809 1.664 360 +0 11/30/18 Stewart Jeffrey Ryan OO,VP AbbVie ABBV 3 12/10/18 \$12.97 20,245 971 400 -0 8/27/18 Kauten Ralph R DIR First Business Finl FBIZ 3 12/10/18 \$12.97 20,245 971 400 -0 8/27/18 Statton Marc David O Summit Midstream LP SMLP 3 12/10/18 \$12.97 20,245 971 400 -0 8/27/18 Olszewski Daniel P DIR First Business Finl FBIZ 3 12/3/18	000 +0	5/15/18 Porpora Kenneth	VP	ADT	ADT	3	12/1/18	\$6.82	96,528	5,160	1,930
+0 2/28/18 Turner Scott M OO,VP MiMedx MDXG 3 12/5/18 \$1.55 60,180 172 5,110 -0 11/21/18 Young Dennis SO,VP Sammina SANM 3 12/3/18 \$24.37 41,809 1,664 360 -0 11/21/18 Sawonski Grant VP Gates Industrial PLC GTES 3 12/10/18 \$13.97 30.955 4,049 570 -0 11/30/18 Stawart Jeffrey Ryan OO,VP AbbVie ABBV 3 12/10/18 \$12.97 20,245 971 400 -0 8/27/18 Kauten Rajph R DIR First Business Finl FBIZ 3 12/3/18 \$20.22 26,188 118 10 -0 8/27/18 Iszewski Daniel P DIR First Business Finl FBIZ 3 12/3/18 \$20.22 16,493 17.7 10 -1 11/15/18 Bruner Chad E CFO E*TRADE Finl ETFC 3 12/3/18 <td>000 0</td> <td>1/12/18 Conz Richard</td> <td>TO,VP</td> <td>Magnegas Applied Tchnlgy Slt</td> <td>MNGA</td> <td>3</td> <td>12/1/18</td> <td>\$0.27</td> <td>80,000</td> <td>37</td> <td>6,270</td>	000 0	1/12/18 Conz Richard	TO,VP	Magnegas Applied Tchnlgy Slt	MNGA	3	12/1/18	\$0.27	80,000	37	6,270
O -0 11/21/18 Young Dennis SO,VP Sammina SANM 3 12/3/18 \$24.37 41,809 1,664 360 +0 11/6/18 Gawronski Grant VP Gates Industrial PLC GTES 3 12/10/18 \$13.97 30,955 4,049 570 -0 11/30/18 Stewart Jeffrey Ryan OO,VP AbbVie ABBV 3 12/10/18 \$85.61 29.478 128,776 6,520 -0 8/27/18 Kauten Ralph R DIR First Business Finl FBIZ 3 12/21/18 \$12.97 20,245 971 400 -0 8/14/18 Boedeker Kenneth W VP EOG Res EOG 3 12/17/18 \$12.97 20,245 971 400 -0 8/14/18 Boedeker Kenneth W VP EOG Res EOG 3 12/3/18 \$10.98 10.643 3.910 -1/5/18 Diszewski Daniel P DIR First Business Finl FBiZ 3 12/3/18 \$43.55 16.183 </td <td>000 +0</td> <td>2/28/18 Landy Mark</td> <td>VP</td> <td>MiMedx</td> <td>MDXG</td> <td>3</td> <td>12/5/18</td> <td>\$1.55</td> <td>79,763</td> <td>172</td> <td>5,110</td>	0 00 +0	2/28/18 Landy Mark	VP	MiMedx	MDXG	3	12/5/18	\$1.55	79,763	172	5,110
+0 11/6/18 Gates Industrial PLC GTES 3 12/10/18 \$13.97 30.955 4,049 570 -0 11/30/18 Stewart Jeffrey Ryan OO,VP AbbVie ABBV 3 12/10/18 \$\$12,10/18 \$\$85.61 29,478 128,776 6,520 -0 8/27/18 Kauten Ralph R DIR First Business Finl FBIZ 3 12/3/18 \$\$20.22 25,188 178 10 -0 7/18/18 Straton Marc David O Summit Midstream LP SMLP 3 12/1/18 \$100.08 19,619 58,037 3,910 -0 8/12/18 Boedser Kenneth W VP EOG Res EOG 3 12/1/18 \$100.08 19,619 58,037 3,910 -0 8/27/18 Diszewski Daniel P DIR First Business Finl FBIZ 3 12/1/18 \$43.55 16,183 11,072 4,060 +1 11/15/18 Reynolds Paula Rosput DIR General Electric GE	0 00 +0	2/28/18 Turner Scott M	OO,VP	MiMedx	MDXG	3	12/5/18	\$1.55	60,180	172	5,110
O AbbVie ABBV 3 12/10/18 \$\$85.61 29.478 128.776 6.520 0 0 8/27/18 Kauten Ralph R DIR First Business Finl FBIZ 3 12/10/18 \$\$12.97 20.245 971 400 0 -0 8/14/18 Boedeker Kenneth W VP EOG Res EOG 3 12/12/18 \$10.08 19,619 58,037 3,910 0 -0 8/14/18 Boedeker Kenneth W VP EOG Res EOG 3 12/11/8 \$10.08 19,619 58,037 3,910 0 -0 8/14/18 Boedeker Kenneth W VP EOG Res EOG 3 12/2/18 \$10.08 19,619 58,037 3,910 0 12/11/18 Boedeker Kenneth CFO	0-00	11/21/18 Young Dennis	SO,VP	Sanmina	SANM	3	12/3/18	\$24.37	41,809	1,664	360
O 100/10 Column Aborne	000 +0	11/6/18 Gawronski Grant	VP	Gates Industrial PLC	GTES	3	12/10/18	\$13.97	30,955	4,049	570
O O O Sum builde bu	0-0 0	11/30/18 Stewart Jeffrey Ryan	OO,VP	AbbVie	ABBV	3	12/10/18	\$85.61	29,478	128,776	6,520
O Built in the original interval O Built interval O Difference	0-0 0	8/27/18 Kauten Ralph R	DIR	First Business Finl	FBIZ	3	12/3/18	\$20.22	25,188	178	10
O Bit Milling Milling Milling Elect Not Elect Not Elect Not Not Not Not Not Not Not Not Not Not Not	0-00	7/18/18 Stratton Marc David	0	Summit Midstream LP	SMLP	3	12/7/18	\$12.97	20,245	971	400
+2 11/5/18 Turner Chad E CFO E*TRADE Finl ETFC 3 12/3/18 \$43.55 16,183 11,072 4,060 +1 11/15/18 Reynolds Paula Rosput DIR General Electric GE 3 12/7/18 \$7.10 15,800 61,757 135,780 +0 12/11/18 Kegler George A CFO,VP Mallinckrodt PLC MNK 3 12/6/18 \$19.20 15,315 1,600 2,200 -0 11/16/18 Cawkwell Gail VP Intercept Pharm ICPT 3 12/1/18 \$108.01 15,025 3,203 390 -0 11/16/18 Cawkwell Gail VP Intercept Pharm ICPT 3 12/1/18 \$108.01 15,025 3,203 390 -0 11/16/18 Cawkwell Gail VP Intercept Pharm ICPT 3 12/1/18 \$108.01 15,025 3,203 390 -0 5/24/18 Merrill John R FO,VP Prudential Finl PRU 3 12/1/18 \$82.37 11,605 140 30 -0	0-00	8/14/18 Boedeker Kenneth W	VP	EOG Res	EOG	3	12/12/18	\$100.08	19,619	58,037	3,910
+2 11/5/18 Turner Chad E CFO E'TRADE Finl ETFC 3 12/3/18 \$43.55 16,183 11,072 4,060 +1 11/15/18 Reynolds Paula Rosput DIR General Electric GE 3 12/7/18 \$7.10 15,800 61,757 135,780 +0 12/11/18 Kegler George A CFO,VP Mallinckrodt PLC MNK 3 12/6/18 \$19.20 15,315 1,600 2,200 -0 11/16/18 Cawkwell Gail VP Intercept Pharm ICPT 3 12/1/18 \$108.01 15,025 3,203 390 -0 11/16/18 Cawkwell Gail VP Intercept Pharm ICPT 3 12/1/18 \$108.01 15,025 3,203 390 -0 12/12/18 Tanji Kenneth CFO,VP Prudential Finl PRU 3 12/1/18 \$108.01 15,025 3,203 390 -0 5/24/18 Merrill John R FO,VP Park City PCYG 3 12/1/18 \$82.37 11,605 140 30 -0	0-00	8/27/18 Olszewski Daniel P	DIR	First Business Finl	FBIZ	3	12/3/18	\$20.22	16,493	178	10
+1 11/15/18 Reynolds Paula Rosput DIR General Electric GE 3 12/17/18 \$7.10 15,800 61,757 135,780 +0 12/11/18 Kegler George A CFO,VP Mallinckrodt PLC MNK 3 12/6/18 \$19.20 15,315 1,600 2,200 -0 11/16/18 Cawkwell Gail VP Intercept Pharm ICPT 3 12/4/18 \$108.01 15,025 3,203 390 -0 11/16/18 Cawkwell Gail VP Intercept Pharm ICPT 3 12/4/18 \$108.01 15,025 3,203 390 -0 12/12/18 Tanji Kenneth CFO,VP Prudential Finl PRU 3 12/1/18 \$82.37 14,539 34,019 2,970 +0.5 5/24/18 Merrill John R FO,VP Park City PCYG 3 12/11/18 \$82.37 14,539 34,019 2,970 +0 5/18/17 Bannon Jones Elisa HR,VP Frontier Comms FTR 3 12/6/18 \$2.64 13,477 279 3,880 <t< td=""><td>••• +2</td><td></td><td>CFO</td><td></td><td></td><td>3</td><td></td><td></td><td></td><td></td><td></td></t<>	•• • +2		CFO			3					
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O 11/16/18 Cawkwell Gail VP Intercept Pharm ICPT 3 12/4/18 \$108.01 15,025 3,203 390 +0 12/12/18 Tanji Kenneth CFO,VP Prudential Finl PRU 3 12/1/18 \$82.37 14,539 34,019 2,970 +0.5 5/24/18 Merrill John R FO,VP Park City PCYG 3 12/1/18 \$87.07 13,605 140 30 +0 5/18/17 Bannon Jones Elisa HR,VP Frontier Comms FTR 3 12/6/18 \$2.64 13,477 279 3,880 +0 12/12/18 Schmidt Timothy L VP Prudential Finl PRU 3 12/1/18 \$82.37 11,816 34,019 2,970 -0 9/4/18 Simpson Michael S LO,VP Cryolife CRY 3 12/3/18 \$28.58 11,022 1,057 150 -0 9/7/18 Keown Gregory B PR Global Brass & Copper BRSS 3	000										
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INSIDER INSIGHTS

Newsletter: Dec 17, 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.

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:

Interpreting our color-coded Ratings icons is straightforward: Green is Bullish; Red is Bearish. SIGNIFICANTLY BULLISH +3 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 SIGNIFICNATLY BEARISH -2 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. SIGNIFICNATLY BEARISH -3 _____ +200 Purchases During Corporate Action May occasionally relay arbitrage intelligence

	+ 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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