Semiannual Report

Deutsche DWS Investments VIT Funds

DWS Small Cap Index VIP

Beginning on January 1, 2021, as permitted by regulations adopted by the Securities and Exchange Commission, you may not be receiving paper copies of the Fund's shareholder reports from the insurance company that offers your contract unless you specifically request paper copies from your insurance company or from your financial intermediary. Instead, the shareholder reports will be made available on a Web site, and your insurance company will notify you by mail each time a report is posted and provide you with a Web site link to access the report. Instructions for requesting paper copies will be provided by your insurance company.

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This report must be preceded or accompanied by a prospectus. To obtain an additional prospectus or summary prospectus, if available, call (800) 728-3337 or your financial representative. We advise you to consider the Fund's objectives, risks, charges and expenses carefully before investing. The summary prospectus and prospectus contain this and other important information about the Fund. Please read the prospectus carefully before you invest.

Stocks may decline in value. Various factors, including costs, cash flows and security selection, may cause the Fund's performance to differ from that of the index. Smaller company stocks tend to be more volatile than medium-sized or large company stocks. The Fund may lend securities to approved institutions. Investing in derivatives entails special risks relating to liquidity, leverage and credit that may reduce returns and/or increase volatility. Please read the prospectus for details.

War, terrorism, economic uncertainty, trade disputes, public health crises (including the recent pandemic spread of the novel coronavirus) and related geopolitical events could lead to increased market volatility, disruption to U.S. and world economies and markets and may have significant adverse effects on the Fund and its investments.

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Fund performance shown is historical, assumes reinvestment of all dividend and capital gain distributions, and does not guarantee future results. Investment return and principal value fluctuate with changing market conditions so that, when redeemed, shares may be worth more or less than their original cost. Current performance may be lower or higher than the performance data quoted. Please contact your participating insurance company for the Fund's most recent month-end performance. Performance figures for Classes A and B differ because each class maintains a distinct expense structure. Performance does not reflect charges and fees ("contract charges") associated with the separate account that invests in the Fund or any variable life insurance policy or variable annuity contract for which the Fund is an investment option. These charges and fees will reduce returns.

The gross expense ratios of the Fund, as stated in the fee table of the prospectus dated May 1, 2020 are 0.53% and 0.81% for Class A and Class B shares, respectively, and may differ from the expense ratios disclosed in the Financial Highlights tables in this report.

Generally accepted accounting principles require adjustments to be made to the net assets of the Fund at period end for financial reporting purposes only, and as such, the total return based on the unadjusted net asset value per share may differ from the total return reported in the financial highlights.

Growth of an Assumed \$10,000 Investment



Russell 2000® Index is an unmanaged, capitalization-weighted measure of approximately 2,000 of the smallest companies in the Russell 3000® Index.

The Russell 3000® Index is an unmanaged index that measures the performance of the 3,000 largest U.S. companies based on total market capitalization, which represents approximately 98% of the investable U.S. equity market.

Index returns do not reflect any fees or expenses and it is not possible to invest directly into an index.

Comparative Results

DWS Small Cap Index	VIP	6-Month [‡]	1-Year	3-Year	5-Year	10-Year
Class A	Growth of \$10,000	\$8,674	\$9,293	\$10,516	\$12,164	\$26,550
	Average annual total return	-13.26%	-7.07%	1.69%	4.00%	10.26%
Russell 2000 Index	Growth of \$10,000	\$8,702	\$9,337	\$10,614	\$12,335	\$27,142
	Average annual total return	-12.98%	-6.63%	2.01%	4.29%	10.50%
DWS Small Cap Index	VIP	6-Month‡	1-Year	3-Year	5-Year	10-Year
Class B	Growth of \$10,000	\$8,656	\$9,262	\$10,430	\$11,993	\$25,851
	Average annual total return	-13.44%	-7.38%	1.41%	3.70%	9.96%
Russell 2000 Index	Growth of \$10,000	\$8,702	\$9,337	\$10,614	\$12,335	\$27,142
	Average annual total return	-12.98%	-6.63%	2.01%	4.29%	10.50%

The growth of \$10,000 is cumulative.

Total returns shown for periods less than one year are not annualized.

Portfo	lio S	umm	ary
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(Unaudited)

6/30/20	12/31/19
98%	98%
2%	2%
0%	0%
0%	0%
0%	_
100%	100%
	98% 2% 0% 0% 0%

Sector Diversification (As a % of Common Stocks and Rights)	6/30/20	12/31/19
Health Care	21%	18%
Financials	16%	18%
Industrials	14%	16%
Information Technology	14%	13%
Consumer Discretionary	12%	11%
Real Estate	7%	8%
Materials	4%	4%
Utilities	4%	4%
Consumer Staples	3%	3%
Communication Services	3%	2%
Energy	2%	3%
	100%	100%

Ten Largest Equity Holdings (2.7% of Net Assets)	Percent
Deckers Outdoor Corp. Designs and markets function-oriented footwear and apparel	0.3%
2 LHC Group, Inc. Provider of post-acute healthcare services primarily to Medicare beneficiaries in rural markets	0.3%
3 BJ's Wholesale Club Holdings, Inc. Operates as warehouse club	0.3%
4 Churchill Downs, Inc. Operator of racing, gaming and online entertainment	0.3%
5 Novavax, Inc. Clinical stage biotechnology company	0.3%
6 MyoKardia, Inc. Operates as a precision cardiovascular medicine company	0.3%
7 Helen of Troy Ltd. Designs, markets, and distributes hair care appliances	0.3%
8 SiteOne Landscape Supply, Inc. Distributor of landscape supplies	0.2%
9 EastGroup Properties, Inc. Developer of industrial properties	0.2%
10 Ultragenyx Pharmaceutical, Inc. Provider of biotechnology services	0.2%

Portfolio holdings and characteristics are subject to change.

For more complete details about the Fund's investment portfolio, see page 5.

Following the Fund's fiscal first and third quarter-end, a complete portfolio holdings listing is filed with the SEC on Form N-PORT. The Fund's Form N-PORT will be available on the SEC's Web site at sec.gov. The Fund's portfolio holdings are also posted on dws.com from time to time. Please read the Fund's current prospectus for more information.

Portfolio Manager

Brent Reeder

Senior Vice President, Northern Trust Investments, Inc., Subadvisor to the Fund

Investment Portfolio

as of June 30, 2020 (Unaudited)

_	Shares	Value (\$)	_	Shares	Value (\$)
Common Stocks 97.6%			Entercom Communications Corp. "A"	21 260	20.477
Communication Services 2.5	%		Entravision Communications	21,360	29,477
Diversified Telecommunication Se	rvices 0.9%		Corp. "A"	11,617	16,612
Alaska Communications Systems			Fluent, Inc.*	7,895	14,053
Group, Inc.	9,664	26,963	Gannett Co., Inc.	24,749	34,154
Anterix, Inc.*	2,494	113,078	Gray Television, Inc.*	16,700	232,965
ATN International, Inc.	2,052	124,290	Hemisphere Media Group, Inc.*	2,832	27,839
Bandwidth, Inc. "A"*	3,582	454,914	iHeartMedia, Inc. "A"*	11,199	93,512
Cincinnati Bell, Inc.*	9,522	141,402	Loral Space & Communications,		
Cogent Communications Holdings, Inc.	7,940	614,238	Inc.	2,490	48,605
Consolidated Communications			Meredith Corp. MSG Networks, Inc. "A"*	7,436 7,474	108,194 74,366
Holdings, Inc.*	13,959	94,502	National CineMedia, Inc.	7,474 11,569	34,360
IDT Corp. "B"*	3,076	20,086	Saga Communications, Inc. "A"	704	18,022
Iridium Communications, Inc.*	21,973	558,993	Scholastic Corp.	5,397	161,586
Liberty Latin America Ltd. "A"*	8,472	82,348	Sinclair Broadcast Group, Inc. "A"	9,732	179,653
Liberty Latin America Ltd. "C"*	21,133	199,496	TechTarget, Inc.*	4,310	129,429
Ooma, Inc.*	3,961	65,277	TEGNA, Inc.	40,996	456,696
Orbcomm, Inc.* (a)	14,110	54,324	The E.W. Scripps Co. "A"	10,255	89,731
Vonage Holdings Corp.*	43,286_	435,457	Tribune Publishing Co.	2,716	27,133
		2,985,368	WideOpenWest, Inc.*	9,801	51,651
Entertainment 0.3%				_	2,533,608
Accel Entertainment, Inc.*	7,892	76,000	Wireless Telecommunication Service	20/	, ,
AMC Entertainment Holdings,			Boingo Wireless, Inc.*	8,191	109,104
Inc. "A" (a)	9,964	42,746	Gogo, Inc.* (a)	10,268	32,447
Cinemark Holdings, Inc.	19,990	230,885	Shenandoah Telecommunications	10,200	32,447
Eros International PLC* (a)	12,889	40,729	Co.	9,012	444,201
Gaia, Inc.*	2,099	17,590	Spok Holdings, Inc.	3,174	29,677
Glu Mobile, Inc.*	24,223	224,547	open Heramige, mer	· · · · · ·	
IMAX Corp.*	9,283	104,062			615,429
Liberty Media CorpLiberty Braves "A"*	1 060	27 500	Consumer Discretionary 11.5%	6	
	1,868	37,509	Auto Components 1.2%		
Liberty Media CorpLiberty Braves "C"*	6,831	134,844	Adient PLC*	16,299	267,630
LiveXLive Media, Inc.* (a)	5,338	19,324	American Axle & Manufacturing		
Marcus Corp.	4,379	58,109	Holdings, Inc.*	21,004	159,630
.viareae eerp.		· · · · · · · · · · · · · · · · · · ·	Cooper Tire & Rubber Co.	9,424	260,197
		986,345	Cooper-Standard Holdings, Inc.*	3,051	40,426
Interactive Media & Services 0.4%			Dana, Inc.	26,951	328,533
Cargurus, Inc.*	16,135	409,022	Dorman Products, Inc.*	4,989	334,612
Cars.com, Inc.*	12,646	72,841	Fox Factory Holding Corp.*	7,202	594,957
DHI Group, Inc.*	9,464	19,874	Gentherm, Inc.*	6,077	236,395
Eventbrite, Inc. "A" * (a)	11,871	101,735	Goodyear Tire & Rubber Co.	43,313	387,435
EverQuote, Inc. "A"*	2,616	152,147	LCI Industries	4,604	529,368
Liberty TripAdvisor Holdings,			Modine Manufacturing Co.*	9,481	52,335
Inc. "A"*	13,010	27,711	Motorcar Parts of America, Inc.* (a)	3,501	61,863
Meet Group, Inc.*	12,896	80,471	Standard Motor Products, Inc.	3,884	160,021
QuinStreet, Inc.*	8,872	92,801	Stoneridge, Inc.*	4,778	98,713
TrueCar, Inc.*	20,048	51,724	Tenneco, Inc. "A" *	9,329	70,527
Yelp, Inc.*	13,103_	303,072	Visteon Corp.*	5,195	355,857
		1,311,398	Workhorse Group, Inc.*	11,853	206,124
Media 0.7%			Xpel, Inc.*	3,126	48,891
AMC Networks, Inc. "A"*	7,244	169,437		_	4,193,514
Boston Omaha Corp. "A"*	2,173	34,768			4,133,314
Cardlytics, Inc.*	4,829	337,933	Automobiles 0.1%		
Central European Media			Winnebago Industries, Inc.	5,841	389,127
Enterprises Ltd. "A"*	16,948	59,996	Distributors 0.1%		
comScore, Inc.*	10,987	34,060	Core-Mark Holding Co., Inc.	8,387	209,297
Daily Journal Corp.*	205	55,350	Funko, Inc. "A"*	4,715	27,347
Emerald Holding, Inc.	4,554	14,026	Greenlane Holdings, Inc. "A"*	2,508	9,982

	Shares	Value (\$)		Shares	Value (\$)
Weyco Group, Inc.	1,242	26,815	Red Rock Resorts, Inc. "A"	12,309	134,291
	_	273,441	Ruth's Hospitality Group, Inc.	5,002	40,816
		270,441	Scientific Games Corp. "A" *	10,708	165,546
Diversified Consumer Services 0.7%			SeaWorld Entertainment, Inc.*	9,480	140,399
Adtalem Global Education, Inc.*	9,725	302,934	Shake Shack, Inc. "A"*	6,557	347,390
American Public Education, Inc.*	2,711	80,246	Target Hospitality Corp.*	6,100	10,309
Aspen Group Inc/co*	3,451	31,232	Texas Roadhouse, Inc.	12,285	645,822
Carriage Services, Inc.	3,136	56,824	The Cheesecake Factory, Inc. (a)	7,836	179,601
Collectors Universe, Inc.	1,707	58,516	Twin River Worldwide Holdings,		
Franchise Group, Inc.	3,577	78,265	Inc. (a)	3,404	75,875
Houghton Mifflin Harcourt Co.*	18,628	33,717	Wingstop, Inc.	5,534	769,060
K12, Inc.*	7,473	203,564			8,995,925
Laureate Education, Inc. "A" *	20,103	200,326	Household Durables 2.0%		
OneSpaWorld Holdings Ltd.	8,097	38,623	Beazer Homes U.S.A., Inc.*	5,570	56,090
Perdoceo Education Corp.*	12,950	206,293	Casper Sleep, Inc.* (a)	1,685	15,114
Regis Corp.*	4,169	34,102	Cavco Industries, Inc.*	1,617	311,838
Strategic Education, Inc.	4,103	630,426	Century Communities, Inc.*	5,487	168,231
Universal Technical Institute, Inc.*	5,358	37,238	Ethan Allen Interiors, Inc.	4,220	49,923
Vivint Smart Home, Inc.*	13,033	225,862	GoPro, Inc. "A" *	24,096	114,697
WW International, Inc.*	8,858_	224,816	Green Brick Partners, Inc.*	4,485	53,147
		2,442,984	Hamilton Beach Brands Holding	4,400	33,147
Hotels, Restaurants & Leisure 2.7%			Co. "A"	1,206	14,351
BBX Capital Corp.	12,037	30,574	Helen of Troy Ltd.*	4,726	891,135
Biglari Holdings, Inc. "A" *	15	5,025	Hooker Furniture Corp.	2,130	41,428
Biglari Holdings, Inc. "A"*	164	11,313	Installed Building Products, Inc.*	4,236	291,352
BJ's Restaurants, Inc.	3,402	71,238	iRobot Corp.*	5,165	433,343
Bloomin' Brands, Inc.	16,213	172,831	KB HOME	16,447	504,594
Bluegreen Vacations Corp.	1,381	7,485	La-Z-Boy, Inc.	8,261	223,543
Boyd Gaming Corp.	15,175	317,157	Legacy Housing Corp.*	1,580	22,468
Brinker International, Inc.	8,182	196,368	LGI Homes, Inc.*	4,151	365,413
Carrols Restaurant Group, Inc.*	7,085	34,291	Lifetime Brands, Inc.	2,187	14,697
Century Casinos, Inc.*	4,779	19,833	Lovesac Co.*	1,741	45,666
Churchill Downs, Inc.	7,099	945,232	M.D.C. Holdings, Inc.	9,551	340,971
Chuy's Holdings, Inc.*	2,979	44,328	M/I Homes, Inc.*	5,256	181,017
Cracker Barrel Old Country Store,	2,070	11,020	Meritage Homes Corp.*	6,921	526,827
Inc.	4,479	496,766	Purple Innovation, Inc.*	2,671	48,078
Dave & Buster's Entertainment,	,	,	Skyline Champion Corp.*	10,153	247,124
Inc. (a)	8,680	115,704	Sonos, Inc.*	14,928	218,397
Del Taco Restaurants, Inc.*	5,634	33,410	Taylor Morrison Home Corp. "A"*	23,505	453,411
Denny's Corp.*	10,145	102,464	TopBuild Corp.*	6,178	702,871
Dine Brands Global, Inc. (a)	2,924	123,100	TRI Pointe Group, Inc.*	24,075	353,662
El Pollo Loco Holdings, Inc.*	3,501	51,675	Tupperware Brands Corp.	8,754	41,581
Eldorado Resorts, Inc.* (a)	15,787	632,427	Turtle Beach Corp.*	2,513	36,991
Everi Holdings, Inc.*	15,192	78,391	Universal Electronics, Inc.*	2,490	116,582
Fiesta Restaurant Group, Inc.*	3,393	21,647	VOXX International Corp.*	3,727	21,542
Gan Ltd.*	1,384	35,223			6,906,084
Golden Entertainment, Inc.*	3,233	28,838	Internet & Direct Marketing Retail 0	60/	
Hilton Grand Vacations, Inc.*	15,883	310,513	1-800 FLOWERS.COM, Inc. "A"*	4,702	94,134
International Game Technology			Duluth Holdings, Inc. "B" * (a)	1,991	14,674
PLC	18,604	165,576	Groupon, Inc.*	4,306	78,025
Jack in the Box, Inc.	4,220	312,660	Lands' End, Inc.*	1,999	16,072
Kura Sushi USA, Inc.*	598	8,539	Liquidity Services, Inc.*	4,921	29,329
Lindblad Expeditions Holdings,			Overstock.com, Inc.*	7,505	213,367
Inc.*	4,795	37,017	PetMed Express, Inc.	3,617	128,910
Marriott Vacations Worldwide	7.500	CO1 FOO	Quotient Technology, Inc.*	16,101	117,859
Corp.	7,560	621,508	RealReal, Inc.*	11,659	149,119
Monarch Casino & Resort, Inc.*	2,361	80,463	Rubicon Project, Inc.* (a)	19,575	130,565
Nathan's Famous, Inc.	536 6.096	30,145	Shutterstock, Inc.	3,569	124,808
Noodles & Co.*	6,086	36,820	Stamps.com, Inc.*	3,099	569,255
Papa John's International, Inc.	6,046	480,113	Stitch Fix, Inc. "A" * (a)	10,499	261,845
Penn National Gaming, Inc.* (a)	25,007	763,714	U.S. Auto Parts Network, Inc.*	3,932	34,051
PlayAGS, Inc.*	4,708 1,715	15,913	Waitr Holdings, Inc.* (a)	14,195	37,333
RCI Hospitality Holdings, Inc. Red Robin Gourmet Burgers, Inc.*	1,715 2,426	23,770 24,745	3	,	
nea nobin douimet burgers, inc.	۷,420	24,740			1,999,346

_	Shares	Value (\$)		Shares	Value (\$)
Leisure Products 0.7%			Sportsman's Warehouse		
Acushnet Holdings Corp.	6,357	221,160	Holdings, Inc.*	7,988	113,829
Callaway Golf Co. (a)	17,465	305,812	The Buckle, Inc.	5,447	85,409
Clarus Corp.	4,349	50,362	The Children's Place, Inc. (a)	2,646	99,013
Escalade, Inc.	1,919	26,789	The Container Store Group, Inc.*	2,885	9,347
Johnson Outdoors, Inc. "A"	953	86,742	The Michaels Companies, Inc.* (a)	13,934	98,513
Malibu Boats, Inc. "A"*	3,824	198,657	Tilly's, Inc. "A"	3,823	21,676
Marine Products Corp.	1,244	17,229	Urban Outfitters, Inc.*	12,911	196,505
MasterCraft Boat Holdings, Inc.*	3,473	66,161	Winmark Corp. (a)	551	94,353
Nautilus, Inc.*	5,543	51,384	Zumiez, Inc.*	3,916	107,220
Smith & Wesson Brands, Inc.* (a)	10,248	220,537		_	7.000.010
Sturm, Ruger & Co., Inc.	3,161	240,236			7,886,010
Vista Outdoor, Inc.*	10,745	155,265	Textiles, Apparel & Luxury Goods 0.	9%	
YETI Holdings, Inc.*	13,852	591,896	Crocs, Inc.*	12,473	459,256
121111616111gg/ 11101		· · · · · · · · · · · · · · · · · · ·	Deckers Outdoor Corp.*	5,218	1,024,763
		2,232,230	Fossil Group, Inc.* (a)	8,665	40,292
Multiline Retail 0.2%			G-III Apparel Group Ltd.*	8,395	111,570
Big Lots, Inc.	7,378	309,876	Kontoor Brands, Inc.* (a)	9,631	171,528
Dillard's, Inc. "A" (a)	1,418	36,570	Lakeland Industries, Inc.*	1,429	32,053
Macy's, Inc.	58,392	401,737	Movado Group, Inc.	3,094	33,539
		· ·	Oxford Industries, Inc.	3,058	134,583
		748,183	Rocky Brands, Inc.	1,238	25,453
Specialty Retail 2.3%			Steven Madden Ltd.	15,423	380,794
Aaron's, Inc.	12,590	571,586	Superior Group of Company, Inc.	1,996	26,746
Abercrombie & Fitch Co. "A"	11,694	124,424	Unifi, Inc.*	2,631	33,887
America's Car-Mart, Inc.*	1,153	101,314	Vera Bradley, Inc.*	3,753	16,663
American Eagle Outfitters, Inc.	28,204	307,424	Wolverine World Wide, Inc.	14,912	355,055
Asbury Automotive Group, Inc.*	3,615	279,548	rreme rreme rinde, me.		
At Home Group, Inc.*	8,850	57,437			2,846,182
Bed Bath & Beyond, Inc. (a)	23,719	251,421	Consumer Staples 3.3%		
Boot Barn Holdings, Inc.*	5,339	115,109	Beverages 0.3%		
Caleres, Inc.	7,202	60,065	Celsius Holdings, Inc.*	6,415	75,505
Camping World Holdings, Inc. "A"	6,053	164,399	Coca-Cola Bottling Co.	0,110	70,000
Cato Corp. "A"	3,675	30,062	Consolidated	871	199,624
Chico's FAS, Inc.	21,424	29,565	Craft Brew Alliance, Inc.*	2,104	32,381
Citi Trends, Inc.	2,123	42,927	MGP Ingredients, Inc. (a)	2,455	90,111
Conn's, Inc.* (a)	3,031	30,583	National Beverage Corp.* (a)	2,196	134,000
Designer Brands, Inc. "A"	11,566	78,302	New Age Beverages Corp.* (a)	16,576	25,361
Envela Corp.*	1,440	8,784	Primo Water Corp.	29,194	401,417
Express, Inc.*	12,075	18,596	Time trater ee.p.		
GameStop Corp. "A" * (a)	10,743	46,625			958,399
Genesco, Inc.*	2,548	55,190	Food & Staples Retailing 0.9%		
Group 1 Automotive, Inc.	3,244	214,007	BJ's Wholesale Club Holdings,		
Growgeneration Corp.*	5,344	36,553	Inc.*	25,584	953,516
Guess?, Inc.	8,218	79,468	HF Foods Group, Inc.* (a)	6,673	60,391
Haverty Furniture Companies, Inc.	3,107	49,712	Ingles Markets, Inc. "A"	2,625	113,059
Hibbett Sports, Inc.*	3,037	63,595	Natural Grocers by Vitamin		
Hudson Ltd. "A" *	7,874	38,346	Cottage, Inc.	1,700	25,296
Lithia Motors, Inc. "A"	4,122	623,782	Performance Food Group Co.*	24,481	713,376
Lumber Liquidators Holdings,	7,122	020,702	PriceSmart, Inc.	4,253	256,584
Inc.* (a)	5,184	71,850	Rite Aid Corp.* (a)	10,245	174,780
MarineMax, Inc.*	3,762	84,231	SpartanNash Co.	6,523	138,614
Monro, Inc.	6,173	339,145	The Andersons, Inc.	5,920	81,459
Murphy USA, Inc.*	5,153	580,176	The Chefs' Warehouse, Inc.*	4,659	63,269
National Vision Holdings, Inc.*	15,030	458,716	United Natural Foods, Inc.*	9,891	180,115
Office Depot, Inc.	97,646	229,468	Village Super Market, Inc. "A"	1,509	41,829
OneWater Marine, Inc. "A"*	97,646 817		Weis Markets, Inc.	1,754	87,910
		19,837		,	
Rent-A-Center, Inc.	9,146	254,442			2,890,198
RH* (a)	3,123	777,315	Food Products 1.4%		
Sally Beauty Holdings, Inc.*	21,082	264,157	Alico, Inc.	961	29,945
Shoe Carnival, Inc.	1,661	48,617	B&G Foods, Inc. (a)	11,955	291,463
Signet Jewelers Ltd. (a)	9,769	100,328	Bridgford Foods Corp.*	322	5,332
Sleep Number Corp.*	5,059	210,657	Cal-Maine Foods, Inc.*	5,948	264,567
Sonic Automotive, Inc. "A"	4,462	142,382	Calavo Growers, Inc.	3,056	192,253

Dearling Ingredients, Inc.* 3,086 740,254 BRC, Inc. 10,156 13,125 Freen Del Monte Product, Inc. 3,886 144,413 Select Energy Services, Inc.* " 1,056 51,778 Freen Del Monte Product, Inc. 7,234 605,196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 160,5196 16		Shares	Value (\$)		Shares	Value (\$)
Freshpat, Inc.* 7,234 606,196 144,913 Solect Energy Services, Inc.** 10,567 51,778 Hostess Brands, Inc.* 7,297 29,8718 Inc.** 7,346 43,859 Jack Jack Foods Corp. 2,779 383,294 Inc.** 7,346 43,859 Jack Jack Foods Corp. 3,546 548,565 Jack Jack Foods Corp. 3,546 548,565 Jack Jack Jack Jack Jack Jack Jack Jack	Darling Ingredients, Inc.*	30,066	740,225	RPC, Inc.	10,105	31,123
Freehpott, Inc.** 7,294 666,196 Inc.**A* 5,396 39,391 Mostess Brands, Inc.** 22,979 385,294 Tidewater, Inc.**A* 199,279 200,0194 Jak J Sanack Foods Corp. 3,546 548,595 U.S. Silice Holdings, Inc. 13,188 47,000 Lancaster Colony Corp. 4,936 548,595 Landecs Corp.** 4,936 548,595 Landecs Corp.** 4,936 744,427 Sanderson Farms, Inc. 3,788 436,674 Seneta Foods Corp. *A* 1,226 41,411 Assemble Foods Co.** 1,226 41,411 Assemble Foods Co.** 1,226 41,411 Assemble Roll Industries, Inc. (a) 2,994 102,604 Assemble Roll Industries, Inc. (a) 2,994 102,604 Household Froducts 0.2% 4,880,489 Household Products 0.2% 4,880,489 Household Products 0.2% 5,647 Central Garden & Per Co.** 7,383 244,796 Cilchi Corp. of Armerica 930 32,271 WD-40 Co. 2,549 505,647 WD-40 Co. 3,540 3,540 Bellring Brands, Inc. 1,540 3,530 Bellring Brands, Inc. 1,528 3,540	Farmer Brothers Co.*	3,038	22,299	SEACOR Holdings, Inc.*	3,587	101,584
Freshpade, Inc.* 22,972 280,718 Inc.* 15,386 39,818 J & J Saneck Foods Corp. 2,779 353,294 Tide/water, Inc.* 7,846 43,808 John B. Sanflighpa & Son, Inc. 16,808 39,291 Landace Corp.* 4,936 39,291 Landace Corp. * 4,936 39,291 Landace Corp. * 4,936 39,291 Landace Corp. * 1,226 4,451 Sandarson Farms, Inc. 3,788 436,674 Sandarson Farms, Inc. 3,788 436,674 Sandarson Farms, Inc. 3,788 2,980 Tootsee Roll Industries, Inc. la) 2,994 102,604 Household Products 0.2% 4,860 6,994 Household Products 0.2% 4,860 6,994 Central Garden & Per Co.* 7,363 248,796 Olib Di Corp. of America 39,032 23,247 WD-40 Co. 2,549 505,647 WD-40 Co. 3,302 248,798 Dilling Brands, Inc.* 7,358 146,719 Edigward Presonal Care Co.* 1,111 315,099 Personal Products 0.4% 33,329 Elifevantage Corp. 2,549 33,832 Lifevantage Corp. 2,549 33,832 Lifevantage Corp. 2,549 34,856 Sulfine Principle Resources Corp.* 3,456 301,496 Common Products 0.4% 33,329 Lifevantage Corp. 2,549 34,856 Belling Brands, Inc.* 1,581 34,895 Lifevantage Corp. 2,549 34,856 Lifevantage Corp. 2,549 33,832 Lifevantage Corp. 2,549 34,856 Lifevantage Corp. 3,456 34,895 Lifevantage Corp. 4,437 3,836 Lifevantage Corp. 4,546 199,250 Veryn, Inc.* 2,436 Lifevantage Corp. 4,546 199,250 Veryn, Inc.* 4,437 3,836 Lifevantage Corp. 4,546 199,250 Veryn, Inc.* 4,437	Fresh Del Monte Produce, Inc. (a)	5,886	144,913			
Hostess Brands, Inc.* 2,972 280,718 Inc.*A** 5,386 39,816 John B. Sanflippo & Son, Inc. 1,683 141,060 Lander Corp.* 4,386 543,659 Lander Corp.* 4,386 543,659 Lander Corp.* 4,386 543,659 Lander Corp.* 4,386 438,674 Lander Corp.* 4,386 438,674 Lander Corp.* 4,386 438,674 Lander Corp.* 4,386 438,674 Lander Corp.* 4,386 43,869 Lander Corp.* 4,386 Lander Corp.* 4,575 Lander Corp.* 4,575 Lander Corp.* 4,575 Lander Corp.* 4,575 Lander Corp.* 4,587 Lander Corp.* 4,587 Lander Corp.* 4,589 Lander Corp.*	Freshpet, Inc.*			Solaris Oilfield Infrastructure,		
John B. Sanflippo & Son, Inc. 1,683 141,050 U.S. Silica Holdings, Inc. 13,082 20,0014 Lanacaster Colony Corp. 4,936 39,291 Limoneira Co. 2,997 43,427 Sanderson Farms, Inc. 3,768 436,674 Simply Good Foods Co." 1,226 41,451 Simply Good Foods Co." 1,226 41,451 Simply Good Foods Co." 1,226 41,451 Tootsie Roll Industries, Inc. 2,994 102,660 Household Products 0.2% 4,580,369 Household Products 0.2% 2,649 5,000 Central Garden & Pet Co. "A" 7,363 24,273 Central Garden & Pet Co. "A" 7,363 24,273 DI-DI Corp. of America 930 32,271 Di-DI Corp. of America 930 32,27			280,718	Inc. "A"	5,366	39,816
Landiec Corp.* 4.936 93,921 Limonoira Co. 2.997 45,4272 Sanderson Farms, Inc. 3,768 436,674 Seneas Foods Corp. *** 1.226 41,451 Seneas Foods Corp. *** 1.226 41,451 Seneas Foods Corp. *** 45,375 115,252 Tootsie Roll Industries, Inc. (a) 2,994 102,604 Household Products 0.2% Central Garden & Pet Co. ** 7,363 246,796 Oil-Dir Corp. of America 930 32,271 Corp. of America 930 32,271 Seneas Products 0.4% Personal Products 0.4% Belling Brands, Inc. ** 7,358 146,719 Edgewell Personal Care Co. ** 10,111 316,099 Edgewell Personal Care Co. ** 10,111 316,099 Edgewell Personal Care Co. ** 1,271 1,272 Inter Partume, Inc. Literature, Inc. ** 1,271 1,272 Inter Partume, Inc. ** 2,112 2,330,322 Intervantage Corp. ** 2,581 34,885 Bevlon, Inc. **A** 16, 1,271 1,283 Bevlon, Inc. **A** 16, 2,184 Vero, Inc. **A** 16, 2,184 Vero, Inc. **A** 16, 2,184 Vero, Inc. **A** 18, 30,875 Director Straight Services, Inc. **1,271 1,283 Bevlon, Inc. **A** 16, 2,184 Vero, Inc. **A** 18, 30,875 Director Group Ltd. **4,894 Vero, Inc. **A** 16, 2,184 Vero, Inc. **A** 18, 2,1	J & J Snack Foods Corp.	2,779	353,294	Tidewater, Inc.*		43,859
Landec Corp.* 4,936 39,291 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,789 2,334,7	John B. Sanfilippo & Son, Inc.	1,653	141,050		109,297	
Limoneira Co. Sanderson Farms, Inc. 3,768 43,647 Senees Foods Corp. "A"* 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 41,451 1,226 1,226 41,451 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1,226 1	Lancaster Colony Corp.	3,546	549,595	U.S. Silica Holdings, Inc.	13,188	47,609
Limoner's Co. Sanderson Farms, Inc. Sander'son Farms, Inc. Sander'so	Landec Corp.*	4,936	39,291		_	2.334.793
Senece Foods Corp. "A" 1,225	Limoneira Co.	2,997	43,427			_,,,,,,,,
Simply Good Foods Co.* 15,935 2,96,072			436,674		40.4	10.015
Tootsis Roll Industries, Inc. (a) 2,994 102,004 4,580,369 8 Brry Corp. 12,683 61,114 4,580,369 8 Brry Corp. 12,683 61,114 4,580,369 8 Brry Corp. 12,683 61,114 4,680 8 Branara Creek Energy, Inc.* 3,802 53,382 61,014 62,010 101,010 Corp. of America 930 32,271 Chesspeake Energy Corp.* 1,841 9,021 61,010 Corp. of America 930 32,271 Chesspeake Energy Corp.* 1,841 9,021 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000 61,000	Seneca Foods Corp. "A"*	1,226	41,451			
National Products 0.2% Admore Shipping Corp. 5,725 24,847	Simply Good Foods Co.*		296,072			
Nousehold Products 0.2%	Tootsie Roll Industries, Inc. (a)	2,994	102,604			
Bonstrax Creek Energy, Inc.			4.580.369			
Central Garden & Pet Co.*			.,000,000			
Central Carden & Pert Co. "A"*		4 700	04.070			
Dil-Dic Corp. of America San S						
Personal Products 0.4% Seb. 812 Seb. 8		•	,			
Personal Products 0.4%	•					
Personal Products 0.4% Self-ing Brands, Inc.* 7.358 146,719 Contango Oil & Gas Co.* 16,741 38,337 Edgewell Personal Care Co.* 10,111 315,059 CVR Energy, Inc. 5,521 111,027 Contango Oil & Gas Co.* 16,741 38,337 Edgewell Personal Care Co.* 4,694 93,329 Delak U.S. Holdings, Inc. 11,667 203,122 Inter Parfums, Inc. 3,320 159,858 DHT Holdings, Inc. 20,415 104,729 Lifevantage Corp.* 4,894 93,329 Dielak U.S. Holdings, Inc. 5,521 111,027 104,729 Lifevantage Corp.* 5,181 41,420 Lifevantage Corp.* 5,181 41,420 Lifevantage Corp.* 5,184 41,420 Lifevantage Corp.* 6,493 49,838 Revlon, Inc. "A"* (a) 1,271 12,583 Energy Fuels, Inc.* (a) 21,828 22,960 USANA Health Sciences, Inc.* 2,164 158,890 Evolution Petroleum Corp. 5,348 14,974 Lifevantage Corp.* 1,258,159 Tobacco 0.1% 1,258,159 Tobacco 0.1% 1,258,159 Lifevantage Corp.* 4,546 193,250 Coordich Petroleum Corp. 5,348 14,974 Lifevantage Corp.* 1,605 11,556 Coordich Petroleum Corp. 1,605 11,556 Coordich Petroleum Corp. 1,605 11,556 Lifevantage Corp.* 1,605 Lifevantage Resources Corp.* 1,605 11,556 Lifevantage Corp.* 1,605 Lifevantage Corp.* 1,605 Lifevantage Resources Corp.* 1,6	VVD-40 Co.	2,549_	505,467			
Personal Products 0.4% Ealining Brands, Inc.* 7,358 146,719 Contango Oil & Gas Co.* 16,741 38,337 Edgewell Personal Care Co.* 10,111 315,059 CVR Energy, Inc. 5,521 111,027 elf Beauty, Inc.* 4,894 93,329 Delek U.S. Holdings, Inc. 11,667 203,122 Curley and Eaglewell Personal Care Co.* 4,894 93,329 Delek U.S. Holdings, Inc. 20,415 104,729 Lifevantage Corp.* 2,581 34,895 Diamond S Shipping, Inc.* 6,149 41,420 Medifast, Inc. (a) 2,112 293,082 Diamond S Shipping, Inc.* 6,189 41,420 Medifast, Inc. (a) 1,271 12,583 Earthstone Energy, Inc. "A"* 5,119 14,538 Earthstone Energy, Inc. "A"* 5,119 14,538 Energy Fuels, Inc.* (a) 21,828 22,960 Veru, Inc.* 4,846 193,250 Universal Corp. 4,546 193,250 Condicion Petroleum Corp.* 6,395 65,325 Universal Corp. 4,546 158,135 Aspen Aerogels, Inc.* 3,315 25,103 Aspen Aerogels, Inc.* 4,890 2,537 Aspen Aerogels, Inc.* 4,890 2,537 Aspen Aerogels, Inc. "A" (a) 4,890 2,537			850,812			
Belling Brands, Inc.* 7,358 146,719 Contango Oil & Gas Co.* 16,741 38,337 Edgewell Personal Care Co.* 10,111 315,059 CVR Energy, Inc. 5,521 111,027 201,122 11ter Parfums, Inc. 3,320 159,858 Diek U.S. Holdings, Inc. 20,415 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,729 104,72	Personal Products 0.4%					
Edgewell Personal Care Co.* 10,111 315,059 CVR Energy, Inc. 5,521 111,027 2elf Beauty, Inc.* 4,894 93,329 Delek U.S. Holdings, Inc. 11,667 203,122 Inter Parfums, Inc. 3,320 159,858 DHT Holdings, Inc. 20,415 104,729 Lifevantage Corp.* 2,581 34,895 Diamond S Shipping, Inc.* 5,184 41,420 Medifast, Inc. (a) 2,112 293,082 Dorian LPG Ldt.* 6,439 48,838 Nature's Sunshine Products, Inc.* 1,427 12,857 Revlon, Inc. "A"* (a) 1,271 12,583 Earthstone Energy, Inc. "A"* 5,119 14,538 Energy Fuels, Inc.* (a) 21,884 29,600 USANA Heath Sciences, Inc.* 2,164 158,802 Evolution Petroleum Corp. 5,348 14,974 Veru, Inc.* 9,244 30,875 Falcon Minerals Corp. 7,120 22,784 Falcon Minerals Corp. 7,120 22,784 Falcon Minerals Corp. 7,120 22,784 (a) 16,997 123,058 (a) 16,997 12		7 358	146 719			
Libert L						
Inter Parfums, Inc.						
Lifewantage Corp.* 2,581 34,895 Diamond S Shipping, Inc.* 5,184 41,420 Medifast, Inc. (a) 2,112 293,082 293,082 Dorian LPG Ltd.* 6,439 49,838 Nature's Sunshine Products, Inc.* 1,427 12,857 Earthstone Energy, Inc. "A"* 5,119 14,538 Earthstone Energy, Inc.* (a) 21,828 32,960 USANA Health Sciences, Inc.* 2,184 158,902 Evolution Petroleum Corp. 5,248 14,974 Veru, Inc.* 2,2010 153,630 Tothacco 0.1% Turning Point Brands, Inc. 1,528 38,062 Universal Corp. 4,546 193,250 Vector Group Ltd. 25,208 253,593 International Seaways, Inc. 4,733 77,337 Vector Group Ltd. 25,208 253,593 International Seaways, Inc. 4,733 77,337 Vector Group Ltd. 24,366 158,135 Aspen Aeroels, Inc.* 3,815 25,103 Montage Resources Corp. * 3,954 156,136 Archrock, Inc. "A" (a) 8,859 182,761 Amprionx Corp.* 6,481 193,069 26,357 Par Pacific Holdings, Inc.* 13,216 24,582 Dril-Quip, Inc.* 6,481 193,069 26,357 Par Pacific Holdings, Inc.* 18,028 184,607 Petro Vollfeld Services, Inc. "A" (a) 4,890 26,357 Par Pacific Holdings, Inc.* 18,028 184,607 Petro Vollfeld Services, Inc. "A" (a) 4,890 26,357 Par Pacific Holdings, Inc.* 18,028 19,040 226,223 Newpark Resources, Inc.* 1,711 46,660 7,2838 Newpark Resources, Inc.* 1,711 36,036 NexTiero Cliffeld Solutions, Inc.* 3,528 24,273 Newpark Resources, Inc.* 1,711 36,036 NexTiero Cliffeld Solutions, Inc.* 1,721 47,052 NexTiero Cliffeld Solutions, Inc.* 1,721 47,052 NexTiero Cliffeld Solutions, Inc.* 1,736 11,863 Corp.* 1,736 16,830 Corp.* 2,060 20,698 77,618 Corp. Ltd. 1,736 16,321 Coeaneering International, Inc.* 1,766 51,091 Southwestern Energy Co.* (a) 20,698 77,618 Corp. Ltd. 17,976 260,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,600 20,6	/ /					
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Revlon, Inc. "A*" (a)						
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Turning Point Brands, Inc.				Goodrich Petroleum Corp.*	1,605	11,556
Dinversal Corp. 4,546 193,250 253,593 253,593 International Seaways, Inc. 4,733 77,337 23,77 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,737 23,743 142,010 20,511 174,343 23,434 142,010 20,511 174,343 23,434 20,511 24,348 20,511 24,348 24,278 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,273 24,					6,395	65,325
Patterson-UTI Energy Ltd. 25,208	·			Gulfport Energy Corp.*		
Renergy 2.2% Renergy Equipment & Services 0.7% Services	Vector Group Ltd.	25,208_	253,593	International Seaways, Inc.	4,733	
Energy Equipment & Services 0.7% Archrock, Inc. Aspen Aerogels, Inc.* Aspen Aerogels, Inc. "A" (a) Cactus, Inc. "A" (a) Championx Corp.* DMC Global, Inc. (a) Dril-Quip, Inc.* Exterran Corp.* Helix Energy Solutions Group, Inc.* Helix Energy Solutions Group, Inc.* Liberty Oilfield Services, Inc. "A" Matador Resources Cor.* (a) Montage Resources Corp.* NACCO Industries, Inc. "A" NextDecade Corp* (a) NextDecade Corp.* NextBerourical Tankers Ltd. (a) NextDecade Corp.* NextBerourical Tankers Ltd. (a) NextBeroir At 7,429 NextBeroir At 7,420 NextBeroir At 7,420 NextBeroir At 7,420 NextBero			484,905	Kosmos Energy Ltd.	75,346	125,074
Energy Equipment & Services 0.7% Archrock, Inc. Archrock, Inc. Aspen Aerogels, Inc.* Asp	Engrav 2 20/			Magnolia Oil & Gas Corp. "A"*	23,434	142,010
Archrock, Inc. Aspen Aerogels, Inc.* Aspen Aerogels, Inc.* Aspen Aerogels, Inc. * Aspen Aerogels Corp. * Aspen Aerogels Corp. * Aspen Aerogels Corp. * Aspen Aerogels Corp. * Aspen Aerogels, Inc. * Aspen Aerogels Corp. * Aspen Aer	= -			Matador Resources Co.* (a)		
Aspen Aerogels, Inc.* Aspen Aerogels, Inc.* Cactus, Inc. "A" (a) Cactus, Inc. "A" (a) Championx Corp.* DMC Global, Inc. (a) Dril-Quip, Inc.* Exterran Corp.* 4,890 26,357 Frank's International NV* Helix Energy Solutions Group, Inc.* Liberty Oilfield Services, Inc. "A" Natrix Service Co.* Nordic American Tankers Ltd. (a) Overseas Shipholding Group, Inc. "A"* 11,781 64,560 Penn Virginia Corp.* Nabors Industries Ltd. 1,271 A7,052 National Energy Services Reunited Corp.* NexTDecade Corp* (a) NextDecade Corp* (a) 4,427 9,562 Nordic American Tankers Ltd. (a) 27,429 111,362 Overseas Shipholding Group, Inc. "A"* 13,216 24,582 Par Pacific Holdings, Inc.* 7,462 67,083 PBF Energy, Inc. "A" 18,028 184,607 PDC Energy, Inc. "A" 18,649 231,994 Peabody Energy Corp. 11,159 32,138 Liberty Oilfield Services, Inc. "A" Natrix Service Co.* National Energy Services Reunited Corp.* NexTDecade Corp* (a) Nordic American Tankers Ltd. (a) 27,429 111,362 Overseas Shipholding Group, Inc. "A"* 13,216 24,582 Par Pacific Holdings, Inc.* 7,462 67,083 PBF Energy, Inc. "A" 18,028 184,607 PDC Energy, Inc. "A" Peabody Energy Corp. 11,159 32,138 Penn Virginia Corp.* 2,508 23,901 PrimeEnergy Resources Corp.* Renewable Energy Group, Inc.* 7,136 76,830 REX American Resources Corp.* 1,050 72,839 NexTer Oilfield Solutions, Inc.* Oil States International, Inc.* 10,756 51,091 Southwestern Energy Co.* 20661 18,961		24.200	150 105		3,954	15,618
Cactus, Inc. "A" (a) 8,859 182,761 Nordic American Tankers Ltd. (a) 27,429 111,362 Championx Corp.* 34,719 338,857 Overseas Shipholding Group, Inc. "A" 13,216 24,582 Dril-Quip, Inc.* 6,481 193,069 Ovintiv, Inc. 48,902 467,014 Exterran Corp.* 4,890 26,357 Par Pacific Holdings, Inc. "A" 18,028 184,607 Helix Energy Solutions Group, Inc.* 26,649 92,472 PBF Energy, Inc. "A" 18,028 184,607 Helix Energy Solutions Group, Inc.* 26,649 92,472 Peabody Energy Corp. 111,159 32,138 Liberty Oilfield Services, Inc. "A" 11,781 64,560 Penn Virginia Corp.* 2,508 23,901 Matrix Service Co.* 5,074 49,319 PrimeEnergy Resources Corp. 40,004 225,223 National Energy Services Reunited Corp.* 15,711 35,036 Corp.* Renewable Energy Group, Inc.* 7,136 176,830 Corp.* Newpark Resources, Inc.* 15,711 35,036 NexTier Oilfield Solutions, Inc.* 18,720 119,621 SM Energy Co. 20,698 77,618 Oil States International, Inc.* 10,756 51,091 Patterson-UTI Energy, Inc. * 2,061 18,961						
Championx Corp.* 34,719 338,857 Overseas Shipholding Group, Inc. "A" * 13,216 24,582 DMC Global, Inc. (a) 2,718 75,017 Inc. "A" * 13,216 24,582 Dril-Quip, Inc. * 6,481 193,069 Ovintiv, Inc. 48,902 467,014 Exterran Corp. * 4,890 26,357 Par Pacific Holdings, Inc. * 7,462 67,083 Frank's International NV* 29,028 64,732 PBF Energy, Inc. "A" 18,028 184,607 Helix Energy Solutions Group, Inc. * 26,649 92,472 Peabody Energy Corp. 11,159 32,138 Liberty Oilfield Services, Inc. "A" 11,781 64,560 Penn Virginia Corp. * 2,508 23,901 Matrix Service Co. * 5,074 49,319 PrimeEnergy Resources Corp. * 96 6,825 Nabors Industries Ltd. 1,271 47,052 Range Resources Corp. * 40,004 225,223 Nextier Oilfield Solutions, Inc. * 3,528 24,273 REX American Resources Corp. * 1,050 72,839 NexTier Oilfield Solutions, Inc. * <				• • • •		
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Dril-Quip, Inc.* 6,481 193,069 Ovintiv, Inc. 48,902 467,014 Exterran Corp.* 4,890 26,357 Par Pacific Holdings, Inc.* 7,462 67,083 Frank's International NV* 29,028 64,732 PBF Energy, Inc. "A" 18,028 184,607 Helix Energy Solutions Group, Inc.* 26,649 92,472 Peabody Energy Corp. 11,159 32,138 Liberty Oilfield Services, Inc. "A" 11,781 64,560 Penn Virginia Corp.* 2,508 23,901 Matrix Service Co.* 5,074 49,319 PrimeEnergy Resources Corp.* 96 6,825 Nabors Industries Ltd. 1,271 47,052 Range Resources Corp. 40,004 225,223 National Energy Services Reunited Corp.* 3,528 24,273 REX American Resources Corp.* 1,050 72,839 NexTier Oilfield Solutions, Inc.* 15,711 35,036 Scorpio Tankers, Inc. (a) 9,555 122,400 NexTier Oilfield Solutions, Inc.* 18,720 119,621 SM Energy Co. 20,698 77,618 Oil States International, Inc.*<	·				40.040	0.4.500
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National Energy Services Reunited Corp.* Newpark Resources, Inc.* NexTier Oilfield Solutions, Inc.* Oceaneering International, Inc.* Oil States International, Inc.* Patterson-UTI Energy, Inc. National Energy Services Reunited Renewable Energy Group, Inc.* REX American Resources Corp.* 1,050 Scorpio Tankers, Inc. (a) 9,555 122,400 SFL Corp. Ltd. SM Energy Co. Southwestern Energy Co.* Southwestern Energy Co.* 101,797 260,600 Patterson-UTI Energy, Inc. National Energy Group, Inc.* 7,136 176,830 REX American Resources Corp.* 1,050 Scorpio Tankers, Inc. (a) 9,555 122,400 SFL Corp. Ltd. SM Energy Co. Southwestern Energy Co.* Southwestern Energy Co.* 101,797 260,600 Patterson-UTI Energy, Inc. Southwestern Energy Loc.* 2,061 18,961				= -		
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Newpark Resources, Inc.* 15,711 35,036 Scorpio Tankers, Inc. (a) 1,050 72,839 NexTier Oilfield Solutions, Inc.* 30,658 75,112 Scorpio Tankers, Inc. (a) 9,555 122,400 Oceaneering International, Inc.* 18,720 119,621 SFL Corp. Ltd. 17,365 161,321 Oil States International, Inc.* 10,756 51,091 Southwestern Energy Co.* (a) 20,698 77,618 Patterson-UTI Energy, Inc. 34,255 118,865 Talos Energy Inc.* 2 061 18 961		3,528	24,273			
NexTier Oilfield Solutions, Inc.* 30,658 75,112 Sculpto Tailisets, Inc. (a) 9,939 122,400 Oceaneering International, Inc.* 18,720 119,621 SFL Corp. Ltd. 17,365 161,321 Oil States International, Inc.* 10,756 51,091 Southwestern Energy Co.* (a) 20,698 77,618 Patterson-UTI Energy, Inc. 34,255 118,865 Talos Energy Inc.* 2 061 18 961	Newpark Resources, Inc.*	15,711				
Oceaneering International, Inc.* 18,720 119,621 SM Energy Co. 20,698 77,618 Oil States International, Inc.* 10,756 51,091 Southwestern Energy Co.* (a) 101,797 260,600 Patterson-UTI Energy, Inc. 34,255 118,865 Talos Energy Inc.* 2 061 18 961						
Oil States International, Inc.* 10,756 51,091 Southwestern Energy Co.* (a) 101,797 260,600 Patterson-UTI Energy, Inc. 34,255 118,865 Talos Energy Inc.* 2,061 18,961	Oceaneering International, Inc.*	18,720	119,621			
Patterson-UTI Energy, Inc. 34,255 118,865 Talos Energy Inc. 2 061 18 961	Oil States International, Inc.*	10,756	51,091			
ProPetro Holding Corp.* 15,093 77,578	0,1			9,		
	ProPetro Holding Corp.*	15,093	77,578	971	_,00.	. 5,55

_	Shares	Value (\$)	_	Shares	Value (\$)
Tellurian, Inc.* (a)	27,289	31,382	Century Bancorp., Inc. "A"	520	40,414
Uranium Energy Corp.*	34,451	30,238	Chemung Financial Corp.	703	19,192
W&T Offshore, Inc.*	18,390	41,929	Choiceone Financial Services, Inc.	1,275	37,689
Whiting Petroleum Corp.* (a)	16,658	18,824	CIT Group, Inc.	18,432	382,095
World Fuel Services Corp.	11,666	300,516	Citizens & Northern Corp.	2,374	49,023
		5,100,541	Citizens Holdings Co.	871	21,775
F' 4 F 00/		2,122,211	City Holding Co.	2,976	193,946
Financials 15.9%			Civista Bancshares, Inc.	2,895	44,583
Banks 8.3%			CNB Financial Corp.	2,854	51,172
1st Constitution Bancorp.	1,722	21,353	Coastal Financial Corp.*	1,827	26,528
1st Source Corp.	3,076	109,444	Codorus Valley Bancorp., Inc.	1,585	21,921
ACNB Corp.	1,674	43,825	Colony Bankcorp, Inc.	1,369	16,113
Allegiance Bancshares, Inc. (a)	3,500	88,865	Columbia Banking System, Inc.	13,453	381,325
Amalgamated Bank "A"	2,558	32,333	Community Bank System, Inc.	9,594	547,050
Amerant Bancorp, Inc.* American National Bankshares,	4,236	63,709	Community Bankers Trust Corp.	3,937 915	21,654 22,326
Inc.	2,057	51,507	Community Financial Corp. Community Trust Bancorp., Inc.	2,909	95,299
Ameris Bancorp.	12,403	292,587	ConnectOne Bancorp., Inc.	6,930	111,712
Ames National Corp.	1,759	34,723	County Bancorp., Inc.	931	19,486
Arrow Financial Corp.	2,484	73,849	CrossFirst Bankshares, Inc.*	8,847	86,524
Atlantic Capital Bancshares, Inc.*	3,831	46,585	Customers Bancorp., Inc.*	5,382	64,692
Atlantic Union Bankshares	-,	,	CVB Financial Corp.	24,147	452,515
Corp. (a)	14,573	337,511	Delmar Bancorp.	1,827	12,003
Auburn National Bancorporation,			Dime Community Bancshares	5,347	73,414
Inc.	436	24,891	Eagle Bancorp. Montana, Inc.	1,167	20,282
Banc of California, Inc.	8,518	92,250	Eagle Bancorp., Inc.	6,015	196,991
BancFirst Corp.	3,540	143,618	Enterprise Bancorp., Inc.	1,753	41,756
BancorpSouth Bank	18,491	420,485	Enterprise Financial Services		
Bank First Corp. (a)	1,172	75,125	Corp.	4,512	140,413
Bank of Commerce Holdings	2,999	22,732	Equity Bancshares, Inc. "A"*	2,609	45,501
Bank of Marin Bancorp.	2,487	82,892	Esquire Financial Holdings, Inc.*	1,121	18,945
Bank of NT Butterfield & Son Ltd.	9,726	237,217	Evans Bancorp., Inc.	846	19,678
Bank of Princeton	1,156	23,212	Farmers & Merchants Bancorp.,		
Bank7 Corp.	588	6,383	Inc.	1,921	40,802
BankFinancial Corp. BankUnited, Inc.	2,654 17,151	22,294 347,308	Farmers National Banc Corp.	4,973	58,980
Bankwell Financial Group, Inc.	1,267	20,145	FB Financial Corp.	3,322 736	82,286
Banner Corp.	6,451	245,138	Fidelity D&D Bancorp, Inc. Financial Institutions, Inc.	2,920	35,394 54,341
Bar Harbor Bankshares	2,785	62,356	First BanCorp.	40,438	226,048
Baycom Corp.*	2,189	28,260	First BanCorp. — North Carolina	5,371	134,705
BCB Bancorp., Inc.	2,455	22,782	First Bancorp., Inc.	1,840	39,928
Berkshire Hills Bancorp., Inc.	8,397	92,535	First Bancshares, Inc.	3,861	86,873
Boston Private Financial Holdings,	-,	,	First Bank	3,074	20,042
Inc.	15,438	106,213	First Busey Corp.	9,461	176,448
Bridge Bancorp., Inc.	3,098	70,758	First Business Financial Services,	2,	,
Brookline Bancorp., Inc.	14,366	144,809	Inc.	1,434	23,589
Bryn Mawr Bank Corp.	3,657	101,153	First Capital, Inc.	597	41,474
Business First Bancshares, Inc.	2,304	35,366	First Choice Bancorp.	1,780	29,156
Byline Bancorp., Inc.	4,537	59,435	First Commonwealth Financial		
C&F Financial Corp.	613	20,382	Corp.	18,052	149,471
Cadence BanCorp.	23,427	207,563	First Community Bancshares, Inc.	3,329	74,736
California Bancorp, Inc.*	1,410	21,009	First Community Corp.	1,338	20,271
Cambridge Bancorp. (a)	1,211	71,740	First Financial Bancorp.	17,985	249,812
Camden National Corp.	2,776	95,883	First Financial Bankshares, Inc.	24,083	695,758
Capital Bancorp. Inc*	1,557	16,660	First Financial Corp. — Indiana	2,580	95,047
Capital City Bank Group, Inc.	2,530	53,004	First Foundation, Inc.	7,290	119,119
Capstar Financial Holdings, Inc.	3,129	37,548	First Guaranty Bancshares, Inc.	514	6,286
Carter Bank & Trust Cathay General Bancorp.	3,961	31,965	First Interestate Banesyetem	1,676	27,855
Catnay General Bancorp. CB Financial Services, Inc.	14,175 920	372,803 20,074	First Interstate BancSystem, Inc. "A"	7,946	246,008
CB Financial Services, Inc. CBTX, Inc.	3,224	20,074 67,704	First Merchants Corp.	10,096	278,347
Central Pacific Financial Corp.	5,224 5,057	81,064	First Mid-Illinois Bancshares, Inc.	2,680	70,296
Central Valley Community	3,007	01,004	First Midwest Bancorp., Inc.	21,325	284,689
Bancorp.	1,861	28,641	First Northwest Bancorp.	1,649	20,481
7.7	,	- /		,	-, '

	Shares	Value (\$)		Shares	Value (\$)
First of Long Island Corp.	4,264	69,674	Oak Valley Bancorp.	1,299	16,471
First Savings Financial Group, Inc.	348	15,079	OceanFirst Financial Corp.	10,876	191,744
First United Corp.	1,254	16,728	OFG Bancorp.	9,445	126,280
First Western Financial, Inc.*	1,163	16,573	Ohio Valley Banc Corp.	758	17,093
Flushing Financial Corp.	4,988	57,462	Old National Bancorp. (a)	30,638	421,579
FNCB Bancorp, Inc.	3,161	18,176	Old Second Bancorp., Inc.	5,377	41,833
Franklin Financial Network, Inc.	2,502	64,427	Origin Bancorp, Inc.	4,123	90,706
Franklin Financial Services Corp.	769	19,917	Orrstown Financial Services, Inc.	2,173	32,052
Fulton Financial Corp.	30,135	317,322	Pacific Premier Bancorp., Inc.	15,767	341,829
FVCBankcorp, Inc.*	2,234	24,038	Park National Corp.	2,682	188,759
German American Bancorp.,	4 507	140 656	Parke Bancorp., Inc.	1,830	24,797
Inc. (a) Glacier Bancorp., Inc.	4,587 17,894	142,656 631,479	PCB Bancorp.	2,369	24,401
Great Southern Bancorp., Inc.	2,071	83,586	Peapack-Gladstone Financial Corp.	3,300	61,809
Great Western Bancorp., Inc.	10,496	144,425	Penns Woods Bancorp., Inc. People's Utah Bancorp.	1,246 2,964	28,297 66,601
Guaranty Bancshares, Inc.	1,309	33,864	People's Otan Bancorp. Peoples Bancorp. of North	2,904	00,001
Hancock Whitney Corp.	16,126	341,871	Carolina, Inc.	847	14,966
Hanmi Financial Corp.	5,734	55,677	Peoples Bancorp., Inc.	3,563	75,821
Harborone Bancorp, Inc.*	9,889	84,452	Peoples Financial Services Corp.	1,331	50,831
Hawthorn Bancshares, Inc.	1,085	21,358	Plumas Bancorp.	862	19,067
HBT Financial, Inc.	1,956	26,073	Preferred Bank	2,539	108,796
Heartland Financial U.S.A., Inc.	6,412	214,417	Premier Financial Bancorp., Inc.	2,273	29,140
Heritage Commerce Corp.	10,779	80,896	Professional Holding Corp.*	897	12,450
Heritage Financial Corp. (a)	6,768	135,360	QCR Holdings, Inc.	2,695	84,030
Hilltop Holdings, Inc.	13,463	248,392	RBB Bancorp.	2,922	39,885
Home Bancshares, Inc.	28,581	439,576	Red River Bancshares, Inc.	923	40,510
HomeTrust Bancshares, Inc.	2,976	47,616	Reliant Bancorp., Inc.	2,868	46,720
Hope Bancorp., Inc.	22,007	202,905	Renasant Corp.	10,187	253,656
Horizon Bancorp, Inc.	8,006	85,584	Republic Bancorp., Inc. "A"	1,860	60,841
Howard Bancorp., Inc.*	2,502	26,571	Republic First Bancorp., Inc.*	8,082	19,720
IBERIABANK Corp.	9,742	443,651	Richmond Mutual Bancorp., Inc.	2,083	23,413
Independent Bank Corp.	6,105	409,584	S&T Bancorp., Inc.	7,234	169,637
Independent Bank Corp./Michigan	3,955	58,732	Salisbury Bancorp, Inc.	472	19,347
Independent Bank Group, Inc.	6,918	280,317	Sandy Spring Bancorp., Inc.	8,610	213,356
International Bancshares Corp.	9,974	319,367	Sb Financial Group, Inc.	1,324	22,005
Investar Holding Corp.	1,915	27,768	SB One Bancorp.	1,485	29,255
Investors Bancorp., Inc.	43,117 9,163	366,495 104,733	Seacoast Banking Corp. of Florida*	9,743	198,757
Lakeland Bancorp., Inc. Lakeland Financial Corp.	4,531	211,099	Select Bancorp, Inc.*	2,954	24,046
Landmark Bancorp. Inc/	4,551	211,099	ServisFirst Bancshares, Inc.	9,098	325,344
manhattan Ks	694	17,149	Shore Bancshares, Inc.	2,489	27,603
LCNB Corp.	2,332	37,219	Sierra Bancorp.	2,586	48,824
Level One Bancorp, Inc.	921	15,418	Silvergate Capital Corp.*	2,879	40,306
Limestone Bancorp, Inc.*	940	12,361	Simmons First National Corp. "A"	20,223	346,016
Live Oak Bancshares, Inc. (a)	5,247	76,134	SmartFinancial, Inc.	2,699	43,670
Macatawa Bank Corp.	4,755	37,184	South Plains Financial, Inc.	2,062	29,363
Mackinac Financial Corp.	1,700	17,629	South State Corp.	13,072	623,012
MainStreet Bancshares, Inc.*	1,307	17,252	Southern First Bancshares, Inc.*	1,312	36,356
Mercantile Bank Corp.	2,942	66,489	Southern National Bancorp. of		
Meridian Corp.*	999	15,834	Virginia, Inc.	3,587	34,758
Metrocity Bankshares, Inc.	3,232	46,315	Southside Bancshares, Inc.	5,911	163,853
Metropolitan Bank Holding Corp.*	1,295	41,544	Spirit of Texas Bancshares, Inc.*	2,479	30,516
Mid Penn Bancorp, Inc.	1,273	23,461	Stock Yards Bancorp., Inc.	3,844	154,529
Middlefield Banc Corp.	1,114	23,116	Summit Financial Group, Inc.	2,232	36,783
Midland States Bancorp., Inc. (a)	4,132	61,773	Texas Capital Bancshares, Inc.*	9,451	291,752
MidWestOne Financial Group, Inc.	2,752	55,040	The Bancorp., Inc.*	9,630	94,374
MVB Financial Corp.	2,023	26,906	Tompkins Financial Corp. (a) TowneBank	2,645 12,542	171,317
National Bank Holdings Corp. "A"	5,415	146,205	TriCo Bancshares	12,542 4,907	236,291 149,418
National Bankshares, Inc.	1,117 7,972	31,946	TriState Capital Holdings, Inc.*	4,907 5,234	82,226
NBT Bancorp., Inc. Nicolet Bankshares, Inc.* (a)	7,872 1 743	242,143	Triumph Bancorp., Inc.*	4,201	101,958
Northeast Bank*	1,743 1,409	95,516 24,728	Trustmark Corp.	11,780	288,846
Northrim BanCorp., Inc.	1,409	27,302	UMB Financial Corp.	8,148	420,029
Norwood Financial Corp.	1,066	26,426	United Bankshares, Inc.	23,078	638,337
	1,000	20,720		- /	

	Shares	Value (\$)		Shares	Value (\$)
United Community Banks, Inc.	14,560	292,947	Lendingclub Corp.*	13,274	60,397
United Securities Bancshares	2,548	17,046	Navient Corp.	35,748	251,308
Unity Bancorp., Inc.	1,412	20,192	Nelnet, Inc. "A"	3,301	157,590
Univest Corp. of Pennsylvania	5,377	86,785	Oportun Financial Corp.*	3,632	48,814
Valley National Bancorp.	74,442	582,136	PRA Group, Inc.*	8,388	324,280
Veritex Holdings, Inc.	8,908	157,672	Regional Management Corp.*	1,560	27,628
Washington Trust Bancorp., Inc.	3,196	104,669	World Acceptance Corp.*	897	58,771
WesBanco, Inc.	12,159	246,949	vvona Acceptance Corp.	097_	30,771
	,				2,286,113
West Bancorp.	3,031	53,012	Diversified Financial Services 0.3%		
Westamerica Bancorp.	4,901_	281,415	A-mark Precious Metals, Inc.*	916	17,450
		28,035,741	Allerus Financial Corp.	2,780	54,933
Capital Markets 1.4%			Banco Latinoamericano de	2,700	34,333
Artisan Partners Asset			Comercio Exterior SA "E"	5,938	68,287
Management, Inc. "A"	10,153	329,973	Cannae Holdings, Inc.*	15,814	649,955
9	10,133	323,373	GWG Holdings, Inc.*	642	4,924
Assetmark Financial Holdings, Inc.* (a)	3,060	83,507			
Associated Capital Group,	3,000	05,507	Marlin Business Services Corp.	1,586	13,418
Inc. "A"	276	10,126	Stonex Group, Inc.*	3,089	169,895
B. Riley Financial, Inc.	3,654	79,511	Swk Holdings Corp.*	653_	7,823
BGC Partners, Inc. "A"					986,685
	57,020	156,235	1		
Blucora, Inc.*	9,134	104,310	Insurance 2.2%	0.000	100 150
Brightsphere Investment Group,	11 570	144 160	Ambac Financial Group, Inc.*	8,600	123,152
Inc.*	11,570	144,162	American Equity Investment Life	10.047	440.000
Cohen & Steers, Inc.	4,564	310,580	Holding Co.	16,847	416,289
Cowen, Inc.	5,001	81,066	AMERISAFE, Inc.	3,594	219,809
Diamond Hill Investment Group	564	64,110	Argo Group International Holdings	0.004	000 010
Donnelley Financial Solutions,		.=	Ltd.	6,024	209,816
Inc.*	5,454	45,814	Benefytt Technologies, Inc.* (a)	2,050	41,943
Federated Hermes, Inc. "B"	17,935	425,059	BRP Group, Inc.*	3,712	64,106
Focus Financial Partners,			Citizens, Inc.* (a)	9,311	55,773
Inc. "A" *	5,875	194,169	CNO Financial Group, Inc.	26,744	416,404
Gain Capital Holdings, Inc.	3,505	21,100	Crawford & Co. "A"	3,038	23,970
GAMCO Investors, Inc. "A"	957	12,738	Donegal Group, Inc. "A"	1,923	27,345
Greenhill & Co., Inc.	2,892	28,891	eHealth, Inc.*	4,761	467,721
Hamilton Lane, Inc. "A"	4,133	278,440	Employers Holdings, Inc.	5,591	168,569
Houlihan Lokey, Inc.	8,268	460,032	Enstar Group Ltd.*	2,246	343,121
Moelis & Co. "A"	9,872	307,612	FBL Financial Group, Inc. "A"	1,857	66,648
Oppenheimer Holdings, Inc. "A"	1,751	38,154	FedNat Holding, Co.	2,451	27,133
Piper Sandler Companies	3,256	192,625	Genworth Financial, Inc. "A"*	94,721	218,805
PJT Partners, Inc. "A"	4,398	225,793	Global Indemnity Ltd.	1,416	33,899
Pzena Investment Management,			Goosehead Insurance, Inc. "A" *	2,409	181,060
Inc. "A"	3,077	16,739	Greenlight Capital Re Ltd. "A"*	5,111	33,324
Safeguard Scientifics, Inc.	3,490	24,430	HCI Group, Inc.	1,086	50,151
Sculptor Capital Management, Inc.	3,504	45,307	Heritage Insurance Holdings, Inc.	4,636	60,685
Siebert Financial Corp.*	2,244	11,355	Horace Mann Educators Corp.	7,761	285,062
Silvercrest Asset Management			Independence Holding Co.	889	27,194
Group, Inc. "A"	1,608	20,438	Investors Title Co.	242	29,359
Stifel Financial Corp.	12,470	591,452	James River Group Holdings Ltd.	5,585	251,325
Value Line, Inc.	187	5,047	Kinsale Capital Group, Inc.	3,887	603,301
Virtus Investment Partners, Inc.	1,373	159,666			
Waddell & Reed Financial,	, -	,	MBIA, Inc.* (a)	13,000 12,760	94,250 275,744
Inc. "A" (a)	12,036	186,678	National General Holdings Corp.	12,700	275,744
Westwood Holdings Group, Inc.	1,479	23,294	National Western Life Group, Inc. "A"	479	97,328
WisdomTree Investments, Inc.	27,195	94,367			
Theadin ned investments, men			NI Holdings, Inc.*	1,683	24,858
		4,772,780	Palomar Holdings, Inc.*	3,603	308,993
Consumer Finance 0.7%			ProAssurance Corp.	9,876	142,906
Atlanticus Holdings Corp.*	928	9,596	ProSight Global, Inc.*	1,658	14,756
Curo Group Holdings Corp.	3,408	27,843	Protective Insurance Corp. "B"	1,579	23,796
Encore Capital Group, Inc.* (a)	5,875	200,808	RLI Corp.	7,412	608,525
Enova International, Inc.*	5,481	81,502	Safety Insurance Group, Inc.	2,714	206,970
EZCORP, Inc. "A"*	9,415	59,315	Selective Insurance Group, Inc.	11,050	582,777
FirstCash, Inc.	7,578	511,363	State Auto Financial Corp.	3,257	58,137
Green Dot Corp. "A" *	9,513	466,898	Stewart Information Services		
Green Dot Corp. A	3,013	400,030	Corp.	4,360	141,744
			•	•	•

_	Shares	Value (\$)	_	Shares	Value (\$)
Third Point Reinsurance Ltd.*	15,074	113,206	Greene County Bancorp., Inc.	571	12,733
Tiptree, Inc.	4,324	27,890	Hingham Institution for Savings	273	45,804
Trupanion, Inc.* (a)	5,549	236,887	Home Bancorp., Inc.	1,408	37,664
United Fire Group, Inc.	3,923	108,706	HomeStreet, Inc. (a)	4,286	105,478
United Insurance Holdings Corp.	3,590	28,074	Kearny Financial Corp.	14,097	115,313
Universal Insurance Holdings, Inc.	5,260	93,365	Luther Burbank Corp.	3,695	36,950
Vericity, Inc.	465	4,943	Merchants Bancorp.	1,599	29,566
Watford Holdings Ltd.*	3,139	52,390	Meridian Bancorp., Inc.	8,930	103,588
		7,692,209	Meta Financial Group, Inc.	6,304	114,544
Mortgage Real Estate Investment T	ruete (RFITe)	1 3%	MMA Capital Holdings, Inc.*	909	21,016
Anworth Mortgage Asset Corp.	18,024	30,641	Mr Cooper Group, Inc.* NMI Holdings, Inc. "A"*	14,478 12,547	180,106 201,756
Apollo Commercial Real Estate	10,021	00,011	Northfield Bancorp., Inc.	8,059	92,840
Finance, Inc.	28,967	284,166	Northwest Bancshares, Inc.	21,954	224,480
Arbor Realty Trust, Inc.	19,253	177,898	Oconee Federal Financial Corp.	194	4,999
Ares Commercial Real Estate			OP Bancorp.	2,318	15,994
Corp.	5,546	50,580	PCSB Financial Corp.	2,806	35,580
Arlington Asset Investment Corp.			PennyMac Financial Services, Inc.	8,673	362,445
"A"	6,671	19,813	Pioneer Bancorp. Inc.*	1,979	18,108
ARMOUR Residential REIT, Inc.	11,995	112,633	Ponce de Leon Federal Bank*	1,616	16,451
Blackstone Mortgage Trust, Inc., "A"	25,786	621,185	Premier Financial Corp.	7,008	123,831
Broadmark Realty Capital, Inc.	24,029	227,555	Provident Bancorp, Inc.	1,687	13,260
Capstead Mortgage Corp.	17,366	95,339	Provident Financial Holdings, Inc.	1,084	14,536
Cherry Hill Mortgage Investment	17,500	33,333	Provident Financial Services, Inc.	11,341	163,877
Corp.	2,848	25,689	Prudential Bancorp., Inc.	1,575	18,963
Chimera Investment Corp.	35,837	344,394	Radian Group, Inc.	35,753	554,529
Colony Credit Real Estate, Inc.	15,714	110,312	Riverview Bancorp., Inc.	3,700	20,905
Dynex Capital, Inc.	4,270	61,061	Security National Financial Corp.	4 005	44 400
Ellington Financial, Inc.	7,704	90,753	"A"*	1,695	11,433
Ellington Residential Mortgage			Southern Missouri Bancorp., Inc.	1,509 719	36,669
REIT	1,675	17,252	Standard Avb Financial Corp. Sterling Bancorp., Inc.	3,148	16,681 11,270
Granite Point Mortgage Trust, Inc.	10,366	74,428	Territorial Bancorp., Inc.	3,148 1,551	36,898
Great Ajax Corp.	3,849	35,411	Timberland Bancorp., Inc.	1,398	25,458
Hannon Armstrong Sustainable	10 001	075 700	TrustCo Bank Corp.	17,561	111,161
Infrastructure Capital, Inc.	13,201	375,700	Walker & Dunlop, Inc.	5,282	268,378
Invesco Mortgage Capital, Inc. (a) KKR Real Estate Finance Trust,	34,519	129,101	Washington Federal, Inc.	14,108	378,659
Inc.	5,331	88,388	Waterstone Financial, Inc.	4,267	63,280
Ladder Capital Corp.	19,556	158,404	Western New England Bancorp,	, -	
MFA Financial, Inc.	84,758	211,047	Inc.	4,291	24,845
New York Mortgage Trust, Inc.	70,502	184,010	WSFS Financial Corp.	9,315	267,340
Orchid Island Capital, Inc.	12,414	58,470		_	5,721,354
PennyMac Mortgage Investment					0,721,001
Trust	18,627	326,531	Health Care 20.1%		
Ready Capital Corp.	6,965	60,526	Biotechnology 10.6%		
Redwood Trust, Inc.	21,184	148,288	89bio, Inc.*	547	10,902
TPG RE Finance Trust, Inc.	11,205	96,363	Abeona Therapeutics, Inc.*	11,128	32,438
Two Harbors Investment Corp.	51,184	257,967	ADMA Biologics, Inc.*	11,244	32,945
Western Asset Mortgage Capital	0.007	24.670	Aduro Biotech, Inc.*	11,642	26,893 284,720
Corp.	9,007_	24,679	Adverum Biotechnologies, Inc.* Aeglea BioTherapeutics, Inc.*	13,636 7,841	72,529
		4,498,584	Affimed NV*	13,800	63,687
Thrifts & Mortgage Finance 1.7%			Agenus, Inc.* (a)	25,850	101,590
Axos Financial, Inc.*	10,912	240,937	Aimmune Therapeutics, Inc.* (a)	8,685	145,126
Bogota Financial Corp.*	1,088	9,509	Akcea Therapeutics, Inc.*	3,081	42,210
Bridgewater Bancshares, Inc.*	4,096	41,984	Akebia Therapeutics, Inc.*	24,310	330,130
Capitol Federal Financial, Inc.	24,793	272,971	Akero Therapeutics, Inc.*	2,087	52,008
Columbia Financial, Inc.*	9,170	127,967	Albireo Pharma, Inc.*	2,487	65,881
ESSA Bancorp., Inc.	1,656	23,052	Alector, Inc.*	8,642	211,210
Essent Group Ltd.	20,269	735,157	Allakos, Inc.* (a)	4,548	326,819
Federal Agricultural Mortgage		4000=:	Allogene Therapeutics, Inc.*	9,059	387,906
Corp. "C"	1,701	108,881	Amicus Therapeutics, Inc.*	47,599	717,793
Flagstar Bancorp., Inc.	6,668	196,239	AnaptysBio, Inc.*	4,003	89,427
FS Bancorp, Inc.	707	27,269	Anavex Life Sciences Corp.* (a)	10,029	49,343

	Shares	Value (\$)		Shares	Value (\$)
Anika Therapeutics, Inc.*	2,610	98,475	Cytokinetics, Inc.*	10,533	248,263
Apellis Pharmaceuticals, Inc.*	11,214	366,249	CytomX Therapeutics, Inc.*	8,602	71,655
Applied Genetic Technologies			Deciphera Pharmaceuticals, Inc.*	6,986	417,204
Corp.*	4,364	24,177	Denali Therapeutics, Inc.*	11,742	283,922
Applied Therapeutics, Inc.*	2,489	89,977	Dermtech, Inc.Common Stock		
Aprea Therapeutics, Inc.*	1,342	52,043	Npv*	1,520	20,110
Aptinyx, Inc.*	4,594	19,157	Dicerna Pharmaceuticals, Inc.*	12,130	308,102
Aravive, Inc.*	2,270	26,423	Dyadic International, Inc.*	3,593	31,115
Arcturus Therapeutics Holdin C*	2,433	113,718	Dynavax Technologies Corp.* (a)	16,694	148,076
Arcus Biosciences, Inc.* Arcutis Biotherapeutics, Inc.* (a)	6,247 1,768	154,551 53,464	Eagle Pharmaceuticals, Inc.*	2,037	97,735
Ardelyx, Inc.*	13,640	94,389	Editas Medicine, Inc.* (a) Eidos Therapeutics, Inc.*	10,359 1,997	306,419 95,197
Arena Pharmaceuticals, Inc.*	10,516	661,982	Eiger BioPharmaceuticals, Inc.*	4,323	41,501
Arrowhead Pharmaceuticals, Inc.*	18,749	809,769	Emergent BioSolutions, Inc.*	8,337	659,290
Assembly Biosciences, Inc.*	5,732	133,670	Enanta Pharmaceuticals, Inc.*	3,581	179,802
Atara Biotherapeutics, Inc.*	10,735	156,409	Enochian Biosciences, Inc.* (a)	2,438	10,264
Athenex, Inc.* (a)	13,753	189,241	Epizyme, Inc.*	16,657	267,511
Athersys, Inc.* (a)	32,368	89,336	Esperion Therapeutics, Inc.* (a)	4,836	248,135
Atreca, Inc.*	3,976	84,609	Evelo Biosciences, Inc.* (a)	2,496	12,230
Aveo Pharmaceuticals, Inc.*	2,554	13,153	Exicure, Inc.*	11,084	27,045
Avid Bioservices, Inc.*	10,374	68,105	Fate Therapeutics, Inc.*	11,695	401,255
Avrobio, Inc.*	5,768	100,652	Fennec Pharmaceuticals, Inc.*	4,015	33,525
Axcella Health, Inc.*	1,369	7,571	FibroGen, Inc.*	15,516	628,863
Beam Therapeutics, Inc.*	2,298	64,344	Five Prime Therapeutics, Inc.*	5,021	30,628
Beyondspring, Inc.*	2,517	37,956	Flexion Therapeutics, Inc.*	6,362	83,660
BioCryst Pharmaceuticals, Inc.*	28,544	136,012	Fortress Biotech, Inc.*	10,826	29,014
Biohaven Pharmaceutical Holding Co., Ltd.*	8,810	644,099	Frequency Therapeutics, Inc.* (a)	5,260	122,295
BioSpecifics Technologies Corp.*	1,202	73,659	G1 Therapeutics, Inc.*	6,372	154,585
Bioxcel Therapeutics, Inc.*	1,202	104,695	Galectin Therapeutics, Inc.* (a)	7,728	23,648
Black Diamond Therapeutics,	1,373	104,033	Galera Therapeutics, Inc.*	1,632	11,652
Inc.* (a)	2,298	96,884	Genprex, Inc.*	5,341	16,771
Blueprint Medicines Corp.*	10,132	790,296	Geron Corp.* GlycoMimetics, Inc.*	33,517 5,874	73,067 22,086
Brainstorm Cell Therapeutics,			Gossamer Bio, Inc.*	9,264	120,432
Inc.*	4,968	55,691	Gritstone Oncology, Inc.*	5,566	36,958
Bridgebio Pharma, Inc.* (a)	13,601	443,529	Halozyme Therapeutics, Inc.*	25,342	679,419
Cabaletta Bio, Inc.*	2,416	26,914	Harpoon Therapeutics, Inc.*	1,969	32,685
Calithera Biosciences, Inc.*	12,297	64,928	Heron Therapeutics, Inc.*	16,367	240,759
Calyxt, Inc.*	1,724	8,499	Homology Medicines, Inc.*	6,351	96,472
CareDx, Inc.*	7,996	283,298	Hookipa Pharma, Inc.*	2,322	26,982
CASI Pharmaceuticals, Inc.* (a)	9,558	23,895	lbio, Inc.*	8,971	19,916
Castle Biosciences, Inc.* Catabasis Pharmaceuticals, Inc.*	1,953 3,373	73,609 21,688	Ideaya Biosciences, Inc.*	2,247	31,930
Catalyst Biosciences, Inc.*	3,253	19,095	IGM Biosciences, Inc.*	1,324	96,652
Catalyst Pharmaceuticals, Inc.* (a)	18,279	84,449	Immunic, Inc.*	641	7,769
CEL-SCI Corp* (a)	6,227	92,907	ImmunoGen, Inc.* (a)	32,474	149,380
Cellular Biomedicine Group, Inc.*	2,420	36,227	Immunovant, Inc.*	3,562	86,735
Centogene NV*	759	17,366	Inovio Pharmaceuticals, Inc.*	26,865	724,012
Checkpoint Therapeutics, Inc.*	8,015	15,870	Insmed, Inc.*	18,908	520,726
ChemoCentryx, Inc.*	8,303	477,755	Intellia Therapeutics, Inc.* (a)	8,184	172,028
Chimerix, Inc.*	9,756	30,244	Intercept Pharmaceuticals, Inc.* (a)	4,842	231,980
Cidara Therapeutics, Inc.*	6,224	22,967	Invitae Corp.*	21,559	653,022
Clovis Oncology, Inc.* (a)	13,515	91,226	Ironwood Pharmaceuticals, Inc.*	29,816	307,701
Cohbar, Inc.*	4,570	7,084	Iveric Bio, Inc.*	8,417	42,927
Coherus Biosciences, Inc.* (a)	10,818	193,209	Jounce Therapeutics, Inc.*	3,490	24,081
Concert Pharmaceuticals, Inc.*	5,344	53,173	Kadmon Holdings, Inc.*	29,761	152,376
Constellation Pharmaceuticals,	E 040	151 700	KalVista Pharmaceuticals, Inc.*	2,557	30,940
Inc.*	5,049	151,722	Karuna Therapeutics, Inc.*	2,895	322,677
Contrafect Corp.* Corbus Pharmaceuticals Holdings,	2,523	16,122	Karyopharm Therapeutics, Inc.*	13,091	247,944
Inc.* (a)	12,267	102,920	Keros Therapeutics, Inc.*	1,298	48,688
Cortexyme, Inc.*	2,937	135,983	Kezar Life Sciences, Inc.*	4,843	25,087
Crinetics Pharmaceuticals, Inc.*	5,056	88,581	Kindred Biosciences, Inc.*	7,276	32,669
Cue Biopharma, Inc.*	5,175	126,839	Kiniksa Pharmaceuticals Ltd. "A"*	3,550	90,454
Cyclerion Therapeutics, Inc.*	4,363	25,785	Kodiak Sciences, Inc.*	5,387	291,544
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_	Shares	Value (\$)	_	Shares	Value (\$)
Krystal Biotech, Inc.*	2,232	92,449	Sangamo Therapeutics, Inc.*	21,364	191,421
Kura Oncology, Inc.*	9,908	161,500	Savara, Inc.*	8,661	21,566
La Jolla Pharmaceutical Co.*	2,986	12,720	Scholar Rock Holding Corp.*	4,243	77,265
Lexicon Pharmaceuticals, Inc.* (a)	7,485	14,933	Selecta Biosciences, Inc.*	12,686	36,028
Ligand Pharmaceuticals, Inc.* (a)	2,692	301,100	Seres Therapeutics, Inc.*	8,198	39,022
LogicBio Therapeutics, Inc.*	2,256	19,086	Soleno Therapeutics, Inc.*	6,267	13,913
MacroGenics, Inc.*	8,912	248,823	Solid Biosciences, Inc.* (a)	4,969	14,559
Madrigal Pharmaceuticals,	1.004	405.050	Sorrento Therapeutics, Inc.* (a)	32,757	205,714
Inc.* (a)	1,634	185,050	Spectrum Pharmaceuticals, Inc.*	21,598	73,001
Magenta Therapeutics, Inc.*	3,113	23,379	Spero Therapeutics, Inc.*	2,690	36,396
MannKind Corp.* (a)	39,697	69,470	SpringWorks Therapeutics* (a)	3,955	166,110
Marker Therapeutics, Inc.* (a) MediciNova, Inc.* (a)	5,003 7,646	10,356 41,441	Stoke Therapeutics, Inc.*	2,283	54,404
MEI Pharma, Inc.*	19,295	79,688	Sutro Biopharma, Inc.*	3,141	24,374
MeiraGTx Holdings PLC*	3,839	48,064	Syndax Pharmaceuticals, Inc.*	5,029 7,750	74,530
Mersana Therapeutics, Inc.*	8,562	200,351	Syros Pharmaceuticals, Inc.* TCR2 Therapeutics, Inc.*	3,044	82,615 46,756
Minerva Neurosciences, Inc.* (a)	5,484	19,797	TG Therapeutics, Inc.* TG Therapeutics, Inc.*	18,036	351,341
Mirati Therapeutics, Inc.*	6,866	783,891	Translate Bio, Inc.*	9,450	169,344
Mirum Pharmaceuticals, Inc.* (a)	1,065	20,725	Turning Point Therapeutics, Inc.*	5,227	337,612
Molecular Templates, Inc.*	4,525	62,400	Twist Bioscience Corp.*	5,577	252,638
Momenta Pharmaceuticals, Inc.*	22,015	732,439	Tyme Technologies, Inc.*	10,890	14,484
Morphic Holding, Inc.* (a)	2,557	69,167	Ultragenyx Pharmaceutical,	10,000	14,404
Mustang Bio, Inc.*	5,138	16,339	Inc.* (a)	10,593	828,584
Myriad Genetics, Inc.*	13,206	149,756	UNITY Biotechnology, Inc.*	6,145	53,339
NantKwest, Inc.*	5,363	65,858	UroGen Pharma Ltd.* (a)	3,622	94,607
Natera, Inc.*	13,029	649,626	Vanda Pharmaceuticals, Inc.*	10,193	116,608
Neoleukin Therapeutics, Inc.*	5,540	91,964	Vaxart, Inc.*	8,292	73,384
Neubase Therapeutics, Inc.*	3,214	28,219	VBI Vaccines, Inc.*	32,820	101,742
Neurobo Pharmaceuticals, Inc.*	815	6,561	Veracyte, Inc.*	9,334	241,751
NextCure, Inc.*	3,079	66,014	Verastem, Inc.*	30,530	52,512
Novavax, Inc.*	10,884	907,181	Vericel Corp.*	8,414	116,281
Nymox Pharmaceutical Corp.*	7,333	26,032	Viela Bio, Inc.*	3,733	161,714
Oncocyte Corp.*	8,099	15,469	Viking Therapeutics, Inc.* (a)	12,243	88,272
OPKO Health, Inc.* (a)	74,299	253,360	Vir Biotechnology, Inc.* (a)	8,645	354,186
Organogenesis Holdings, Inc.*	3,792	14,561	Voyager Therapeutics, Inc.*	4,837	61,043
Orgenesis, Inc.*	3,376	20,526	vTv Therapeutics, Inc. "A"*	2,058	4,631
Oric Pharmaceuticals, Inc.*	1,625	54,811	X4 Pharmaceuticals, Inc.*	2,761	25,733
Ovid therapeutics, Inc.*	7,983	58,835	XBiotech, Inc.* (a)	2,658	36,441
Oyster Point Pharma, Inc.*	875	25,270	Xencor, Inc.*	10,357	335,463
Passage Bio, Inc.*	2,536	69,309	XOMA Corp.*	1,133	22,388
PDL BioPharma, Inc.* (a)	21,505	62,580	Y-mAbs Therapeutics, Inc.*	5,589	241,445
Pfenex, Inc.* PhaseBio Pharmaceuticals, Inc.*	6,434 2,535	53,724 11,661	Zentalis Pharmaceuticals, Inc.*	1,927	92,535 130,649
Pieris Pharmaceuticals, Inc.*	2,535 8,549	26,502	ZIOPHARM Oncology, Inc.* (a)	39,832	
Portola Pharmaceuticals, Inc.* (a)	14,668	263,877			35,891,322
Precigen, Inc.* (a)	12,708	63,413	Health Care Equipment & Supplies 3	3.5%	
Precision BioSciences, Inc.*	8,537	71,113	Accelerate Diagnostics, Inc.* (a)	5,706	86,503
Prevail Therapeutics, Inc.*	2,689	40,066	Accuray, Inc.*	16,213	32,912
Principia Biopharma, Inc.*	5,490	328,247	Alphatec Holdings, Inc.*	8,327	39,137
Protagonist Therapeutics, Inc.* (a)	4,217	74,472	AngioDynamics, Inc.*	6,642	67,549
Protara Therapeutics, Inc.*	374	10,966	Antares Pharma, Inc.*	31,278	86,015
Prothena Corp. PLC*	5,757	60,218	Apyx Medical Corp.*	6,141	34,083
PTC Therapeutics, Inc.*	11,537	585,387	Aspira Women's Health, Inc.*	8,766	33,661
Puma Biotechnology, Inc.*	5,826	60,765	AtriCure, Inc.*	7,286	327,506
Radius Health, Inc.* (a)	8,431	114,915	Atrion Corp. (a)	261	166,260
RAPT Therapeutics, Inc.*	2,048	59,433	Avanos Medical, Inc.*	8,828	259,455
REGENXBIO, Inc.*	6,362	234,312	AxoGen, Inc.*	6,815	62,971
Replimune Group, Inc.*	3,212	79,818	Axonics Modulation Technologies,	F 000	100 770
Retrophin, Inc.*	7,724	157,647	Inc.*	5,690	199,776
Revolution Medicines, Inc.*	2,681	84,639	Bellerophon Therapeutics, Inc.*	642	8,057
Rhythm Pharmaceuticals, Inc.*	6,280	140,044	Beyond Air, Inc.Common Stock*	2,449	17,755 20,111
Rigel Pharmaceuticals, Inc.*	32,955	60,308	BioLife Solutions, Inc.* BioSig Technologies, Inc.* (a)	1,230 3,966	28,555
Rocket Pharmaceuticals, Inc.*	6,360	133,115	Cantel Medical Corp.	7,089	313,546
Rubius Therapeutics, Inc.*	6,925	41,412	Santon Modical Corp.	7,000	310,040

	Shares	Value (\$)		Shares	Value (\$)
Cardiovascular Systems, Inc.*	6,451	203,529	Health Care Providers & Services 2.3	3%	
Cerus Corp.*	30,277	199,828	1Life Healthcare, Inc.* (a)	3,984	144,699
Chembio Diagnostics, Inc.*	3,628	11,791	Adapthealth Corp.*	1,466	23,603
Co-diagnostics, Inc.*	4,846	93,770	Addus HomeCare Corp.*	2,581	238,897
CONMED Corp.	5,070	364,989	American Renal Associates		
CryoLife, Inc.*	6,777	129,915	Holdings, Inc.*	2,554	16,652
CryoPort, Inc.* (a)	6,265	189,516	AMN Healthcare Services, Inc.*	8,718	394,402
Cutera, Inc.*	3,145	38,275	Apollo Medical Holdings, Inc.*	1,902	31,383
CytoSorbents Corp.* (a)	6,442	63,776	Avalon GloboCare Corp.* (a)	4,006	7,611
Electromed, Inc.*	1,301	20,022	BioTelemetry, Inc.*	6,222	281,172
FONAR Corp.*	1,185	25,323	Brookdale Senior Living, Inc.*	34,473	101,695
GenMark Diagnostics, Inc.*	12,651	186,096	Community Health Systems, Inc.*	16,151	48,615
Glaukos Corp.*	7,903	303,633	CorVel Corp.*	1,643	116,472
Heska Corp.* (a)	1,282	119,444	Covetrus, Inc.*	18,339	328,085
Inogen, Inc.*	3,388	120,342	Cross Country Healthcare, Inc.*	6,862	42,270
Integer Holdings Corp.*	6,114	446,628	Enzo Biochem, Inc.*	8,562	19,179
IntriCon, Corp.*	1,565	21,159	Exagen, Inc.*	991	12,298
Invacare Corp.	6,078	38,717	Five Star Senior Living, Inc.*	3,564	13,900
iRadimed Corp.*	1,111	25,786	Fulgent Genetics, Inc.*	1,806	28,896
iRhythm Technologies, Inc.*	5,054	585,708	Hanger, Inc.*	6,984	115,655
Lantheus Holdings, Inc.*	12,531	179,193	HealthEquity, Inc.*	13,048	765,526
LeMaitre Vascular, Inc.	3,083	81,391	InfuSystems Holdings, Inc.*	2,700	31,158
LivaNova PLC*	9,131	439,475	LHC Group, Inc.*	5,671	988,569
Meridian Bioscience, Inc.*	7,833	182,431	Magellan Health, Inc.*	4,366	318,631
Merit Medical Systems, Inc.*	10,125	462,206	MEDNAX, Inc.*	15,523	265,443
Mesa Laboratories, Inc.	760	164,768	National Healthcare Corp.	2,351	149,148
Milestone Scientific, Inc.*	6,529	12,732	National Research Corp. "A"	2,531	147,330
Misonix, Inc.*	2,720	36,910	Option Care Health, Inc.*	6,339	87,985
Natus Medical, Inc.*	6,375	139,103	Owens & Minor, Inc. (a)	11,575	88,202
Nemaura Medical, Inc.*	1,260	11,655	Patterson Companies, Inc. (a)	15,856	348,832
Neogen Corp.*	9,861	765,214	Pennant Group, Inc.*	4,846	109,520
Nevro Corp.*	6,271	749,196	PetIQ, Inc.*	3,842	133,855
NuVasive, Inc.*	9,588	533,668	Progyny, Inc.*	4,925	127,114
OraSure Technologies, Inc.*	11,446	133,117	Providence Service Corp.*	2,260	178,337
Orthofix Medical, Inc.* (a)	3,444	110,208	R1 RCM, Inc.*	19,976	222,732
OrthoPediatrics Corp.*	2,234	97,760	RadNet, Inc.*	7,991	126,817
Pavmed, Inc.*	6,705	14,148	Select Medical Holdings Corp.*	20,263	298,474
Pulse Biosciences, Inc.*	2,600	27,196	Sharps Compliance Corp.*	2,666	18,742
Quotient Ltd.*	11,309	83,687	Surgery Partners, Inc.*	3,999	46,269
Repro-med Systems, Inc.*	4,551	40,868	Tenet Healthcare Corp.*	19,530	353,688
Retractable Technologies, Inc.*	2,470	17,339	The Ensign Group, Inc.	9,561	400,128
Rockwell Medical, Inc.* (a)	12,932	25,217	The Joint Corp.*	2,412	36,831
RTI Surgical, Inc.*	10,287	32,713	Tivity Health, Inc.*	8,083	91,580
SeaSpine Holdings Corp.*	4,908	51,387	Triple-S Management Corp. "B"*	4,318	82,128
Shockwave Medical, Inc.*	4,982	235,997	U.S. Physical Therapy, Inc.	2,397	194,205
SI-BONE, Inc.*	4,747	75,667	Viemed Healthcare, Inc.*	6,417	61,603
Sientra, Inc.*	8,714	33,723			7,638,331
Silk Road Medical, Inc.*	5,938	248,743	Health Care Technology 1 09/		
Soliton, Inc.* (a)	1,120	8,714	Health Care Technology 1.0%		
STAAR Surgical Co.*	8,428	518,659	Allscripts Healthcare Solutions, Inc.*	30,029	203,297
Stereotaxis, Inc.*	8,252	36,804	Computer Programs & Systems,	30,023	203,237
SurModics, Inc.*	2,432	105,160	Inc.	2,408	54,878
Tactile Systems Technology, Inc.*	3,405	141,069	Evolent Health, Inc. "A"*	14,102	100,406
Tela Bio, Inc.*	1,016	13,167	Health Catalyst, Inc.* (a)	6,031	175,924
TransMedics Group, Inc.*	3,702	66,340	HealthStream, Inc.*	4,882	108,039
Utah Medical Products, Inc. (a)	662	58,666	HMS Holdings Corp.*	16,480	533,787
Varoy Imaging Corn *	3,580	146,744	lcad, Inc.*	3,756	37,523
Varex Imaging Corp.*	7,058	106,929	Inovalon Holdings, Inc. "A"*	13,782	265,441
Venus Concept, Inc.*	3,480	12,145	Inspire Medical Systems, Inc.*	4,889	425,441
ViewRay, Inc.*	19,819	44,395 17,077	NantHealth, Inc.*	5,014	22,964
Volitionrx Ltd.* Wright Medical Group NV* (a)	4,390 24,040	17,077 714,469	NextGen Healthcare, Inc.*	10,208	112,084
Zynex, Inc.* (a)	3,097	714,469	Omnicell, Inc.*	7,939	560,652
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		12,025,171		.,555	2.,002

_	Shares	Value (\$)	_	Shares	Value (\$)
OptimizeRx Corp.*	2,692	35,077	Marinus Pharmaceuticals, Inc.*	14,965	38,011
Phreesia, Inc.*	5,343	151,100	Menlo Therapeutics, Inc.*	19,934	34,486
Schrodinger, Inc.* (a)	2,556	234,053	MyoKardia, Inc.*	9,282	896,827
Simulations Plus, Inc.	2,356	140,936	NGM Biopharmaceuticals, Inc.*	4,375	86,363
Tabula Rasa HealthCare, Inc.* (a)	3,825	209,342	Ocular Therapeutix, Inc.* (a)	9,577	79,776
Vocera Communications, Inc.*	6,044	128,133	Odonate Therapeutics, Inc.*	2,440	103,310
	_	3,536,929	Omeros Corp.*	9,819	144,536
		0,000,020	Optinose, Inc.*	5,767	42,906
Life Sciences Tools & Services 0.6%		40.050	Osmotica Pharmaceuticals PLC*	2,489	16,751
Champions Oncology, Inc.*	1,345	12,858	Pacira BioSciences, Inc.*	7,776	408,007
ChromaDex Corp.*	7,218	33,131	Paratek Pharmaceuticals, Inc.*	7,610	39,724
Codexis, Inc.* (a)	9,856 13,721	112,358	Phathom Pharmaceuticals, Inc.*	2,031	66,840
Fluidigm Corp.*		55,021	Phibro Animal Health Corp. "A"	3,811	100,115
Harvard Bioscience, Inc.* Luminex Corp.	7,061 7,937	21,889	Prestige Consumer Healthcare,		0=0=4=
Medpace Holdings, Inc.*	5,074	258,191 471,983	Inc.*	9,412	353,515
NanoString Technologies, Inc.*	7,060	207,211	Provention Bio, Inc.*	7,911	111,624
NeoGenomics, Inc.*	19,354	599,587	Recro Pharma, Inc.*	3,553	16,166
Pacific Biosciences of California,	13,334	333,307	Relmada Therapeutics, Inc.*	2,623	117,379
Inc.*	26,739	92,250	Revance Therapeutics, Inc.* Satsuma Pharmaceuticals, Inc.*	10,605	258,974
Personalis, Inc.*	3,725	48,313	scPharmaceuticals, Inc.*	1,715	49,323
Quanterix Corp.*	3,538	96,906	SIGA Technologies, Inc.*	1,016 10,026	7,478 59,254
			Strongbridge Biopharma PLC*	6,681	25,254
		2,009,698	Supernus Pharmaceuticals, Inc.*	9,207	25,254
Pharmaceuticals 2.1%			TherapeuticsMD, Inc.* (a)	9,207 44,157	55,196
AcelRx Pharmaceuticals, Inc.*	14,440	17,472	Therapeuticsivib, inc. (a) Theravance Biopharma, Inc.*	8,590	180,304
Aerie Pharmaceuticals, Inc.* (a)	6,860	101,254	Tricida, Inc.*	5,284	145,204
Agile Therapeutics, Inc.*	12,679	35,248	Verrica Pharmaceuticals, Inc.*	2,378	26,182
AMAG Pharmaceuticals, Inc.* (a)	5,897	45,112	WaVe Life Sciences Ltd.*	3,991	41,546
Amneal Pharmaceuticals, Inc.*	18,535	88,227	Xeris Pharmaceuticals, Inc.*	6,842	18,200
Amphastar Pharmaceuticals, Inc.*	6,650	149,359	Zogenix, Inc.* (a)	10,384	280,472
ANI Pharmaceuticals, Inc.*	1,795	58,050	g-:, (e,		
Aquestive Therapeutics, Inc.*	3,711	18,035			7,046,281
Arvinas, Inc.*	5,462	183,196	Industrials 14.2%		7,046,281
Arvinas, Inc.* Avenue Therapeutics, Inc.*	5,462 1,234	183,196 13,290			7,046,281
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.*	5,462 1,234 5,173	183,196 13,290 425,634	Industrials 14.2% Aerospace & Defense 0.9% AAR Corp.	6,210	7,046,281 128,361
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.*	5,462 1,234	183,196 13,290	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings,	6,210	
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences	5,462 1,234 5,173 4,291	183,196 13,290 425,634 6,093	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.*	13,698	128,361 542,989
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.*	5,462 1,234 5,173 4,291	183,196 13,290 425,634 6,093	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.*	13,698 4,043	128,361 542,989 321,944
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a)	5,462 1,234 5,173 4,291 16,597 7,728	183,196 13,290 425,634 6,093 72,363 132,149	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp.*	13,698 4,043 4,496	128,361 542,989 321,944 47,478
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311	183,196 13,290 425,634 6,093 72,363 132,149 13,278	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp.* Cubic Corp. (a)	13,698 4,043 4,496 5,874	128,361 542,989 321,944 47,478 282,128
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728	183,196 13,290 425,634 6,093 72,363 132,149	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp.* Cubic Corp. (a) Ducommun, Inc.*	13,698 4,043 4,496 5,874 2,051	128,361 542,989 321,944 47,478 282,128 71,518
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp.* Cubic Corp. (a) Ducommun, Inc.* Kaman Corp.	13,698 4,043 4,496 5,874	128,361 542,989 321,944 47,478 282,128
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp.* Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security	13,698 4,043 4,496 5,874 2,051 5,123	128,361 542,989 321,944 47,478 282,128 71,518 213,117
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp.* Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.*	13,698 4,043 4,496 5,874 2,051 5,123	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp.* Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.*	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* CorMedix, Inc.* (a)	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp.* Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A"	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* CorMedix, Inc.* (a) Cymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc.	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* CorMedix, Inc.* (a) Cymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.*	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* CorMedix, Inc.* (a) Cymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp.	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* CorMedix, Inc.* (a) Cymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evofem Biosciences, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.*	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* CorMedix, Inc.* (a) Cymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evofem Biosciences, Inc.* Evolus, Inc.* (a)	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800 4,155	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904 22,022	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.* Triumph Group, Inc.	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233 9,626	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404 86,730
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* Corymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evofem Biosciences, Inc.* Evolus, Inc.* (a) Fulcrum Therapeutics, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800 4,155 2,397	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904 22,022 43,841	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.*	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404 86,730 104,942
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* Corymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evofem Biosciences, Inc.* Evolus, Inc.* (a) Fulcrum Therapeutics, Inc.* Harrow Health, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800 4,155 2,397 4,165	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904 22,022 43,841 21,700	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.* Triumph Group, Inc.	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233 9,626	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404 86,730
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* Corymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evofem Biosciences, Inc.* Evofem Biosciences, Inc.* Harrow Health, Inc.* Imara, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800 4,155 2,397 4,165 920	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904 22,022 43,841 21,700 25,420	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.* Triumph Group, Inc.	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233 9,626	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404 86,730 104,942
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* Corymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evofem Biosciences, Inc.* Evolus, Inc.* (a) Fulcrum Therapeutics, Inc.* Harrow Health, Inc.* Imara, Inc.* Innoviva, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800 4,155 2,397 4,165 920 11,772	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904 22,022 43,841 21,700 25,420 164,573	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.* Triumph Group, Inc. Vectrus, Inc.* Air Freight & Logistics 0.3% Air Transport Services Group,	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233 9,626 2,136	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404 86,730 104,942 2,986,585
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* Corymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evofem Biosciences, Inc.* Evolus, Inc.* (a) Fulcrum Therapeutics, Inc.* Harrow Health, Inc.* Imara, Inc.* Innoviva, Inc.* Intersect ENT, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800 4,155 2,397 4,165 920 11,772 6,092	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904 22,022 43,841 21,700 25,420 164,573 82,486	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.* Triumph Group, Inc. Vectrus, Inc.* Air Freight & Logistics 0.3% Air Transport Services Group, Inc.*	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233 9,626	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404 86,730 104,942
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* Corymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evofem Biosciences, Inc.* Evolus, Inc.* (a) Fulcrum Therapeutics, Inc.* Harrow Health, Inc.* Imara, Inc.* Innoviva, Inc.* Intra-Cellular Therapies, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800 4,155 2,397 4,165 920 11,772 6,092 10,273	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904 22,022 43,841 21,700 25,420 164,573 82,486 263,708	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.* Triumph Group, Inc. Vectrus, Inc.* Air Freight & Logistics 0.3% Air Transport Services Group, Inc.* Atlas Air Worldwide Holdings,	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233 9,626 2,136	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404 86,730 104,942 2,986,585
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* Corymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evofem Biosciences, Inc.* Evofem Biosciences, Inc.* Harrow Health, Inc.* Imara, Inc.* Innoviva, Inc.* Intersect ENT, Inc.* Intra-Cellular Therapies, Inc.* Kala Pharmaceuticals, Inc.* (a)	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800 4,155 2,397 4,165 920 11,772 6,092 10,273 7,385	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904 22,022 43,841 21,700 25,420 164,573 82,486 263,708 77,616	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.* Triumph Group, Inc. Vectrus, Inc.* Air Freight & Logistics 0.3% Air Transport Services Group, Inc.* Atlas Air Worldwide Holdings, Inc.*	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233 9,626 2,136	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404 86,730 104,942 2,986,585
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* Corymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evolus, Inc.* (a) Fulcrum Therapeutics, Inc.* Imara, Inc.* Innoviva, Inc.* Intra-Cellular Therapies, Inc.* Kala Pharmaceuticals, Inc.* (a) Kaleido Biosciences, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800 4,155 2,397 4,165 920 11,772 6,092 10,273 7,385 1,622	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904 22,022 43,841 21,700 25,420 164,573 82,486 263,708 77,616 12,051	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.* Triumph Group, Inc. Vectrus, Inc.* Air Freight & Logistics 0.3% Air Transport Services Group, Inc.* Atlas Air Worldwide Holdings, Inc.* Bristow Group, Inc.*	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233 9,626 2,136 —	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404 86,730 104,942 2,986,585 246,351 207,017 19,474
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* CorMedix, Inc.* (a) Cymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evolus, Inc.* (a) Fulcrum Therapeutics, Inc.* Incoviva, Inc.* Innoviva, Inc.* Intra-Cellular Therapies, Inc.* Kala Pharmaceuticals, Inc.* (a) Kaleido Biosciences, Inc.* Lannett Co., Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800 4,155 2,397 4,165 920 11,772 6,092 10,273 7,385 1,622 5,888	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904 22,022 43,841 21,700 25,420 164,573 82,486 263,708 77,616 12,051 42,747	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.* Triumph Group, Inc. Vectrus, Inc.* Air Freight & Logistics 0.3% Air Transport Services Group, Inc.* Atlas Air Worldwide Holdings, Inc.* Bristow Group, Inc.* Echo Global Logistics, Inc.*	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233 9,626 2,136 11,062 4,811 1,398 4,802	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404 86,730 104,942 2,986,585 246,351 207,017 19,474 103,819
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* CorMedix, Inc.* (a) Cymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evolus, Inc.* (a) Fulcrum Therapeutics, Inc.* Incoviva, Inc.* Innoviva, Inc.* Intra-Cellular Therapies, Inc.* Kala Pharmaceuticals, Inc.* Lannett Co., Inc.* Liquidia Technologies, Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800 4,155 2,397 4,165 920 11,772 6,092 10,273 7,385 1,622 5,888 3,806	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904 22,022 43,841 21,700 25,420 164,573 82,486 263,708 77,616 12,051 42,747 32,047	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.* Triumph Group, Inc. Vectrus, Inc.* Air Freight & Logistics 0.3% Air Transport Services Group, Inc.* Atlas Air Worldwide Holdings, Inc.* Bristow Group, Inc.* Echo Global Logistics, Inc.* Forward Air Corp.	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233 9,626 2,136 —	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404 86,730 104,942 2,986,585 246,351 207,017 19,474 103,819 257,968
Arvinas, Inc.* Avenue Therapeutics, Inc.* Axsome Therapeutics, Inc.* Aytu Bioscience, Inc.* BioDelivery Sciences International, Inc.* Cara Therapeutics, Inc.* (a) Cassava Sciences, Inc.* Cerecor, Inc.* Chiasma, Inc.* Collegium Pharmaceutical, Inc.* Corcept Therapeutics, Inc.* CorMedix, Inc.* (a) Cymabay Therapeutics, Inc.* Durect Corp.* Eloxx Pharmaceuticals, Inc.* Endo International PLC* Eton Pharmaceuticals, Inc.* Evolus, Inc.* (a) Fulcrum Therapeutics, Inc.* Incoviva, Inc.* Innoviva, Inc.* Intra-Cellular Therapies, Inc.* Kala Pharmaceuticals, Inc.* (a) Kaleido Biosciences, Inc.* Lannett Co., Inc.*	5,462 1,234 5,173 4,291 16,597 7,728 4,311 5,898 6,588 6,410 17,972 5,114 12,712 36,901 5,606 41,872 2,754 8,800 4,155 2,397 4,165 920 11,772 6,092 10,273 7,385 1,622 5,888	183,196 13,290 425,634 6,093 72,363 132,149 13,278 15,335 35,443 112,175 302,289 32,218 44,365 85,610 16,986 143,621 15,009 24,904 22,022 43,841 21,700 25,420 164,573 82,486 263,708 77,616 12,051 42,747	Aerospace & Defense 0.9% AAR Corp. Aerojet Rocketdyne Holdings, Inc.* AeroVironment, Inc.* Astronics Corp. * Cubic Corp. (a) Ducommun, Inc.* Kaman Corp. Kratos Defense & Security Solutions, Inc.* Maxar Technologies, Inc.* Moog, Inc. "A" National Presto Industries, Inc. Pae, Inc.* Park Aerospace Corp. Parsons Corp.* Triumph Group, Inc. Vectrus, Inc.* Air Freight & Logistics 0.3% Air Transport Services Group, Inc.* Atlas Air Worldwide Holdings, Inc.* Bristow Group, Inc.* Echo Global Logistics, Inc.*	13,698 4,043 4,496 5,874 2,051 5,123 19,760 11,379 5,555 934 11,026 3,539 4,233 9,626 2,136 11,062 4,811 1,398 4,802	128,361 542,989 321,944 47,478 282,128 71,518 213,117 308,849 204,367 294,304 81,622 105,408 39,424 153,404 86,730 104,942 2,986,585 246,351 207,017 19,474 103,819

	Shares	Value (\$)		Shares	Value (\$)
Radiant Logistics, Inc.*	6,951	27,318	Steelcase, Inc. "A"	15,968	192,574
	_	1,155,472	Team, Inc.*	5,479	30,518
		1,133,472	Tetra Tech, Inc.	10,054	795,472
Airlines 0.3%	0.400	000.000	The Brink's Co.	9,394	427,521
Allegiant Travel Co.	2,436	266,036	U.S. Ecology, Inc.	5,844	197,995
Hawaiian Holdings, Inc.	8,560	120,182	UniFirst Corp.	2,824	505,355
Mesa Air Group, Inc.* SkyWest, Inc.	5,331 9,192	18,339 299,843	Viad Corp.	3,748	71,287
Spirit Airlines, Inc.* (a)	16,158	299,643 287,612	VSE Corp.	1,588_	49,847
Spirit Airlines, Inc. (a)	10,130_				7,506,497
		992,012	Construction & Engineering 1.2%		
Building Products 1.5%			Aegion Corp.*	5,769	91,554
AAON, Inc.	7,627	414,070	Ameresco, Inc. "A" *	4,557	126,593
Advanced Drainage Systems, Inc.	9,226	455,764	Api Group Corp. 144A*	26,128	317,455
Alpha Pro Tech Ltd.*	2,287	40,480	Arcosa, Inc.	9,084	383,345
American Woodmark Corp.*	3,188	241,172	Argan, Inc.	2,730	129,347
Apogee Enterprises, Inc.	4,909	113,103	Comfort Systems U.S.A., Inc.	6,717	273,718
Builders FirstSource, Inc.*	21,591	446,934	Concrete Pumping Holdings, Inc.*	5,036	17,525
Caesarstone Ltd.	4,046	47,945	Construction Partners, Inc. "A"*	3,398	60,349
Cornerstone Building Brands, Inc.*	8,050	48,783	Dycom Industries, Inc.*	5,765	235,731
CSW Industrials, Inc.	2,631	181,828	EMCOR Group, Inc.	10,153	671,519
Gibraltar Industries, Inc.*	6,118	293,725	Fluor Corp.	26,323	317,982
Griffon Corp.	6,906	127,899	Granite Construction, Inc.	8,720	166,901
Insteel Industries, Inc.	3,481	66,383	Great Lakes Dredge & Dock Corp.*	12,069	111,759
JELD-WEN Holding, Inc.*	12,601	203,002	HC2 Holdings, Inc.*	8,153	27,231
Masonite International Corp.*	4,569	355,377	IES Holdings, Inc.*	1,464	33,921
Patrick Industries, Inc.	4,191	256,699	MasTec, Inc.*	10,585	474,949
PGT Innovations, Inc.*	10,825	169,736	MYR Group, Inc.*	3,069	97,932
Quanex Building Products Corp.	6,120	84,946	Northwest Pipe Co.*	1,699	42,594
Resideo Technologies, Inc.*	23,150	271,318	NV5 Holdings, Inc.*	1,976	100,440
Simpson Manufacturing Co., Inc.	8,136	686,353	Primoris Services Corp.	8,955	159,041
Ufp Industries, Inc.	11,165_	552,779	Sterling Construction Co., Inc.*	5,143	53,847
		5,058,296	Tutor Perini Corp.* Willscot Corp.*	7,623 10,165	92,848 124,928
Commercial Services & Supplies 2.2	2%		willscot Corp.	10,105_	
ABM Industries, Inc.	12,532	454,912			4,111,509
Acco Brands Corp.	17,268	122,603	Electrical Equipment 0.9%		
Advanced Disposal Services, Inc.*	13,791	416,074	Allied Motion Technologies, Inc.	1,417	50,020
Brady Corp. "A"	9,064	424,376	American Superconductor Corp.*	3,878	31,528
BrightView Holdings, Inc.* Casella Waste Systems, Inc. "A"*	5,967 8,619	66,830 449,222	Atkore International Group, Inc.*	8,801	240,707
CECO Environmental Corp.*	5,409	35,645	AZZ, Inc.	4,913	168,614
Cimpress PLC*	3,323	253,678	Bloom Energy Corp. "A"* (a)	15,897	172,959
CompX International, Inc.	395	5,459	Encore Wire Corp.	3,761	183,612
Covanta Holding Corp. (a)	21,959	210,587	EnerSys Fuelcell Energy, Inc.*	7,947 39,782	511,628 89,907
Deluxe Corp.	7,750	182,435	LSI Industries, Inc.	4,783	30,946
Ennis, Inc.	4,823	87,489	Orion Energy Systems, Inc.*	4,999	17,297
Harsco Corp.*	14,495	195,827	Plug Power, Inc.*	60,531	496,960
Healthcare Services Group, Inc.	14,025	343,051	Powell Industries, Inc.	1,742	47,713
Heritage-Crystal Clean, Inc.*	2,934	51,228	Preformed Line Products Co.	538	26,905
Herman Miller, Inc.	10,924	257,916	Sunrun, Inc.*	21,705	428,023
HNI Corp.	8,043	245,875	Thermon Group Holdings, Inc.*	6,045	88,076
Interface, Inc.	11,009	89,613	TPI Composites, Inc.*	5,553	129,774
KAR Auction Services, Inc.	24,147	332,263	Ultralife Corp.*	1,701	11,924
Kimball International, Inc. "B"	6,551	75,730	Vicor Corp.* (a)	3,291	236,788
Knoll, Inc.	9,449	115,183	Vivint Solar, Inc.*	9,187_	90,951
Matthews International Corp. "A"	5,649	107,896		_	3,054,332
McGrath RentCorp.	4,519	244,071	Industrial Conglements 0.19/		
Mobile Mini, Inc. NL Industries, Inc.	8,189 1,487	241,576 5,071	Industrial Conglomerates 0.1% Raven Industries, Inc.	6,575	141,428
PICO Holdings, Inc.*	3,409	28,738		0,370	171,420
Pitney Bowes, Inc.	32,413	84,274	Machinery 3.5%	4.0.0	400 :==
Quad Graphics, Inc.	5,771	18,756	Alamo Group, Inc.	1,846	189,473
SP Plus Corp.*	4,324	89,550	Albany International Corp. "A"	5,708	335,117
	.,==.	,000			

_	Shares	Value (\$)		Shares	Value (\$)
Altra Industrial Motion Corp.	12,002	382,384	Genco Shipping & Trading Ltd.	3,543	22,250
Astec Industries, Inc.	4,238	196,262	Matson, Inc. (a)	7,961	231,665
Barnes Group, Inc.	8,824	349,077	Pangaea Logistics Solutions Ltd.*	2,016	5,060
Blue Bird Corp.*	2,885	43,246	Safe Bulkers, Inc.*	9,520	11,614
Chart Industries, Inc.*	6,701	324,931	Scorpio Bulkers, Inc.	1,005	15,377
CIRCOR International, Inc.*	3,737	95,219	•	_	354,679
Columbus McKinnon Corp.	4,395	147,013			354,075
Douglas Dynamics, Inc.	4,277	150,208	Professional Services 1.3%		
Energy Recovery, Inc.* (a)	7,083	53,795	Acacia Research Corp.*	8,909	36,438
Enerpac Tool Group Corp.	10,128	178,253	Akerna Corp.*	1,699	14,951
EnPro Industries, Inc.	3,883	191,393	ASGN, Inc.*	9,517	634,594
ESCO Technologies, Inc.	4,809	406,505	Barrett Business Services, Inc.	1,403	74,541
Evoqua Water Technologies			BG Staffing, Inc.	1,876	21,236
Corp.*	16,008	297,749	CBIZ, Inc.*	9,425	225,917
Federal Signal Corp.	11,256	334,641	CRA International, Inc.	1,343	53,049
Franklin Electric Co., Inc.	8,597	451,514	Exponent, Inc.	9,588	775,957
Gencor Industries, Inc.*	1,725	21,804	Forrester Research, Inc.*	2,029	65,009
Gorman-Rupp Co.	3,250	101,010	Franklin Covey Co.*	2,337	50,012
Graham Corp.	1,799	22,919	GP Strategies Corp.*	2,366	20,300
Greenbrier Companies, Inc.	6,002	136,546	Heidrick & Struggles International,	0.500	== 004
Helios Technologies, Inc.	5,422	201,969	Inc.	3,593	77,681
Hillenbrand, Inc.	13,910	376,544	Huron Consulting Group, Inc.*	4,258	188,416
Hurco Companies, Inc.	1,178	32,949	ICF International, Inc.	3,423	221,913
Hyster-Yale Materials Handling,			Insperity, Inc.	6,779	438,805
Inc.	1,814	70,129	Kelly Services, Inc. "A"	6,308	99,761
John Bean Technologies Corp.	5,821	500,722	Kforce, Inc.	3,694	108,049
Kadant, Inc.	2,131	212,375	Korn/Ferry International	10,170	312,524
Kennametal, Inc.	15,514	445,407	Mastech Holdings, Inc.*	724	18,773
L.B. Foster Co. "A"*	1,769	22,590	Mistras Group, Inc.*	2,950	11,653
Lindsay Corp.	2,050	189,031	Red Violet, Inc.*	1,212	21,380
Luxfer Holdings PLC	5,276	74,655	Resources Connection, Inc.	5,690	68,109
Lydall, Inc.*	3,147	42,673	TriNet Group, Inc.*	7,696	468,994
Manitowoc Co Inc/The*	6,561	71,384	TrueBlue, Inc.*	6,695	102,233
Mayville Engineering Co., Inc.*	1,165	9,204	Upwork, Inc.*	17,337	250,346
Meritor, Inc.*	12,984	257,083	Willdan Group, Inc.* (a)	1,863_	46,594
Miller Industries, Inc.	2,101	62,547			4,407,235
Mueller Industries, Inc.	10,526	279,781	Road & Rail 0.6%		
Mueller Water Products, Inc. "A"	29,327	276,554	ArcBest Corp.	4,756	126,081
Navistar International Corp.*	9,394	264,911	Avis Budget Group, Inc.*	9,837	225,169
NN, Inc.	8,254	39,124	Covenant Transportation Group,	0,007	220,100
Omega Flex, Inc.	530	56,074	Inc. "A" *	2,308	33,304
Park-Ohio Holdings Corp.	1,505	24,968	Daseke, Inc.*	8,679	34,108
Proto Labs, Inc.*	5,013	563,812	Heartland Express, Inc.	8,483	176,616
RBC Bearings, Inc.*	4,602	616,852	Hertz Global Holdings, Inc.* (a)	14,909	21,022
REV Group, Inc.	5,437	33,166	Marten Transport Ltd.	7,442	187,241
Rexnord Corp.	19,939	581,222	P.A.M. Transportation Services,		
Shyft Group Inc/the	6,358	107,069	Inc.*	333	10,240
SPX Corp.*	8,017	329,900	Saia, Inc.*	4,910	545,894
SPX FLOW, Inc.*	7,977	298,659	U.S. Xpress Enterprises, Inc. "A"*	3,914	23,484
Standex International Corp. Tennant Co.	2,301	132,423 224,154	Universal Logistics Holdings, Inc.	1,444	25,097
Terex Corp.	3,448	236,070	Werner Enterprises, Inc.	11,388	495,720
The Eastern Co.	12,577 1,014	18,120			1,903,976
The ExOne Co.*	2,091	17,878			1,505,570
TriMas Corp.* (a)	8,059	193,013	Trading Companies & Distributors 1	1.3%	
	9,914		Alta Equipment Group, Inc.*	3,173	24,654
Wabash National Corp. Watts Water Technologies,	3,314	105,287	Applied Industrial Technologies,	7.007	454 540
Inc. "A"	5,136	416,016	Inc.	7,237	451,516
Welbilt, Inc.*	24,205	147,408	Beacon Roofing Supply, Inc.*	10,195	268,842
	27,200_		BMC Stock Holdings, Inc.*	12,610	317,015
		11,940,782	CAI International, Inc.*	3,131	52,163
Marine 0.1%			DXP Enterprises, Inc.*	3,151	62,736
Costamare, Inc.	9,348	51,975	EVI Industries, Inc.* (a)	839	18,215
Eagle Bulk Shipping, Inc.* (a)	7,643	16,738	Foundation Building Materials, Inc.*	3,948	61,628
			1110.	0,040	01,020

	Shares	Value (\$)	_	Shares	Value (\$)
GATX Corp.	6,521	397,651	FARO Technologies, Inc.*	3,322	178,059
General Finance Corp.*	1,969	13,212	Fitbit, Inc. "A"*	44,617	288,226
GMS, Inc.*	7,774	191,163	II-VI, Inc.*	16,800	793,296
H&E Equipment Services, Inc.	6,011	111,083	Insight Enterprises, Inc.*	6,434	316,553
Herc Holdings, Inc.*	4,546	139,699	Intellicheck, Inc.*	2,978	22,484
Lawson Products, Inc.*	770	24,840	Iteris, Inc.*	7,226	34,360
MRC Global, Inc.*	14,792	87,421	Itron, Inc.*	7,493	496,411
Nesco Holdings, Inc.Common			Kimball Electronics, Inc.*	4,366	59,116
Stoc*	2,494	10,026	Knowles Corp.*	16,572	252,889
NOW, Inc.*	20,713	178,753	Luna Innovations, Inc.*	5,412	31,606
Rush Enterprises, Inc. "A"	5,067	210,078	Methode Electronics, Inc.	6,767	211,536
Rush Enterprises, Inc. "B"	770	27,458	MTS Systems Corp.	3,655	64,292
SiteOne Landscape Supply, Inc.*	7,805	889,536	Napco Security Technologies,		
Systemax, Inc.	2,247	46,153	Inc.* (a)	2,256	52,768
Textainer Group Holdings Ltd.*	10,241	83,771	nLight, Inc.*	6,446	143,488
Titan Machinery, Inc.*	3,721	40,410	Novanta, Inc.*	6,390	682,260
Transcat, Inc.*	1,293	33,437	OSI Systems, Inc.* (a)	3,158	235,713
Triton International Ltd.	9,533	288,278	PAR Technology Corp.* (a)	3,002	89,850
Veritiv Corp.*	2,394	40,602	PC Connection, Inc.	2,065	95,733
WESCO International, Inc.*	9,168	321,889	Plexus Corp.*	5,374	379,190
Willis Lease Finance Corp.*	491	11,922	Powerfleet, Inc.*	5,137	23,733
	_		Research Frontiers, Inc.*	4,947	20,085
		4,404,151	Rogers Corp.*	3,484	434,106
Information Technology 13.5%	, D		Sanmina Corp.*	12,558	314,452
Communications Equipment 0.9%			ScanSource, Inc.*	4,734	114,042
Acacia Communications, Inc.*	7,265	488,135	TTM Technologies, Inc.*	18,782	222,755
ADTRAN, Inc.	9,056	98,982	Vishay Intertechnology, Inc.	24,667	376,665
Applied Optoelectronics, Inc.* (a)	3,437	37,360	Vishay Precision Group, Inc.*	2,334	57,370
CalAmp Corp.*	6,339	50,775	Wrap Technologies, Inc.* (a)	2,132	22,343
Calix, Inc.*	9,102	135,620	3 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	, -	
Cambium Networks Corp.*	952	7,007			7,630,354
Casa Systems, Inc.*	5,871	24,423	IT Services 2.0%		
Clearfield, Inc.*	2,163	30,195	Brightcove, Inc.*	7,598	59,872
Comtech Telecommunications	,		Cardtronics PLC "A"*	6,630	158,987
Corp.	4,552	76,883	Cass Information Systems, Inc.	2,634	102,805
DASAN Zhone Solutions, Inc.*	2,261	20,191	Conduent, Inc.*	29,970	71,628
Digi International, Inc.*	5,146	59,951	CSG Systems International, Inc.	6,063	250,948
Extreme Networks, Inc.*	22,135	96,066	Endurance International Group		
Genasys, Inc.*	6,143	29,855	Holdings, Inc.*	12,326	49,674
Harmonic, Inc.*	17,781	84,460	EVERTEC, Inc.	11,186	314,327
Infinera Corp.* (a)	29,091	172,219	Evo Payments, Inc. "A"*	7,672	175,152
Inseego Corp.*	12,730	147,668	Exlservice Holdings, Inc.*	6,243	395,806
InterDigital, Inc.	5,722	324,037	Greensky, Inc. "A"*	11,627	56,972
KVH Industries, Inc.*	2,908	25,968	Grid Dynamics Holdings, Inc.*	4,098	28,276
NETGEAR, Inc.*	5,347	138,434	GTT Communications, Inc.* (a)	5,948	48,536
NetScout Systems, Inc.*	13,208	337,597	I3 Verticals, Inc. "A"*	2,765	83,641
PC-Tel, Inc.*	3,316	22,151	Information Services Group, Inc.*	5,870	12,151
Plantronics, Inc. (a)	6,095	89,475	International Money Express,		
Resonant, Inc.*	9,298	21,664	Inc.*	2,498	31,125
Ribbon Communications, Inc.*	12,759	50,143	KBR, Inc.	26,594	599,695
Viavi Solutions, Inc.*	42,815	545,463	Limelight Networks, Inc.*	21,384	157,386
•	_		LiveRamp Holdings, Inc.*	12,254	520,427
		3,114,722	ManTech International Corp. "A"	5,080	347,929
Electronic Equipment, Instruments	& Componen	ts 2.2%	MAXIMUS, Inc.	11,431	805,314
Akoustis Technologies, Inc.* (a)	5,677	47,062	MoneyGram International, Inc.*	11,623	37,310
Arlo Technologies, Inc.*	14,721	37,980	NIC, Inc.	12,287	282,110
Badger Meter, Inc.	5,453	343,103	Paysign, Inc.* (a)	5,502	53,424
Bel Fuse, Inc. "B"	1,744	18,713	Perficient, Inc.*	6,124	219,117
Belden, Inc.	8,257	268,765	Perspecta, Inc.	26,031	604,700
Benchmark Electronics, Inc.	6,848	147,917	PFSweb, Inc.*	2,616	17,475
CTS Corp.	6,027	120,781	Priority Technology Holdings,		
Daktronics, Inc.	6,822	29,676	Inc.*	1,214	3,144
ePlus, Inc.*	2,471	174,650	Repay Holdings Corp. Common	0.000	400.075
Fabrinet*	6,862	428,326	Sto*	6,832	168,272

ServiceSource Internationel, Inc.* 1,937 25,755 Benefittrous, Inc.* 9,242 527,533 Sylvas Entreprises, Inc.* 2,999 15,235 Blackbard, Inc. 9,242 527,533 Sylvas Entreprises, Inc.* 2,993 158,257 Blackbard, Inc. 9,371 776,990 THE Heckett Group, Inc. 4,501 60,944 Blackbard, Inc.* 2,790 572,146 Blackbard, Inc.* 2,790 572,146 Blackbard, Inc.* 2,790 572,146 Blackbard, Inc.* 2,790 572,146 Blox, Inc.* 4,790 Correce, Inc.* 4,790 Coulera, Inc.* 6,866 280,407 Coulera, Inc.* 6,866 280,407 Coulera, Inc.* 6,866 280,407 Coulera, Inc.* 6,866 280,407 Coulera, Inc.* 6,797,991 Semiconductors & Semiconductor Expression 4,900 Coulera, Inc.* 4,900 Cou	_	Shares	Value (\$)	_	Shares	Value (\$)
StarTiest, Inc.* 7,398 15,255 Blockbaud, Inc. 9,242 57,639 The Hackett Group, Inc. 4,501 60,944 Blotomlino Technologies de, Inc.* 27,666 572,146 Tucows, Inc.** 1,750 102,603 Cerence, Inc.** 27,666 592,146 Tucows, Inc.** 1,750 102,603 Cerence, Inc.** 27,666 592,146 Tucows, Inc.** 1,750 102,603 Cerence, Inc.** 6,866 280,407 Tucows, Inc.** 1,750 102,603 Cerence, Inc.** 6,866 280,407 Tucows, Inc.** 1,750 102,603 Cerence, Inc.** 6,866 280,407 Tucows, Inc.** 7,772 5,779,991 Tucows, Inc.** 7,772 5,779,991 Tucows, Inc.** 7,772 7,7991 Tucows, Inc.** 7,991 Tucows, Inc.**	ServiceSource International, Inc.*	16,307	25,765	Benefitfocus, Inc.*	5,313	57,168
Sykes Enterprises, Inc.* 7,328 20,683 Blacklein, Inc.* 9,371 776,99 TTEC Holdings, Inc. 3,399 188,257 Box, Inc.*** 2,7860 572,146 Lrowsy, Inc.** 1,790 102,693 Box, Inc.** 6,866 209,407 Virtuse Corp.* 11,569 128,218 CharnelAdvisor Corp.* 5,184 81,864 Virtuse Corp.* 24,955 256,846 CharnelAdvisor Corp.* 5,184 486,781 Virtuse Corp.* 7,772 300,776 Cormerstone OrDerbarnad, Inc.* 11,340 486,721 Semiconductors & Semiconductor Equipment 28** Alpha & Omega Semiconductor 1,579,991 480,021 Dioright Turbries, Inc.* 1,539,792 37,422 Alpha & Omega Semiconductor 1,616 283,527 Alpha & Omega Semiconductor 1,616 283,527 Ambarella, Inc.* 6,164 283,527 Alpha & Omega Semiconductor 1,616 223,527 Ambarella, Inc.* 6,164 283,527 Alpha Art. 1,616 24,765 24,004 Axolis Technologys, Inc.*	StarTek, Inc.*		15,235	Blackbaud, Inc.		527,533
TECHoldings. Inc. 3,399 156,257 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,00	Sykes Enterprises, Inc.*					
TECHoldings. Inc. 3,399 156,257 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,00	The Hackett Group, Inc.		60,944	Bottomline Technologies de, Inc.*		409,714
Tucows, Inc. "A" 1,790 102,603 Carence, Inc. " 6,886 280,407 ChannelAdvisor Corp." 5,154 61,639 126,218 ChannelAdvisor Corp." 5,154 61,639 173,227 6,777,991 6,777,991 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777 7,777					27,560	
Unity Corp.* 11,689 256,886 Clouders, Inc.* Commandate Systems, Inc.* 7,772 300,776 Commandate Systems, Inc.* 2,342 37,449 Digital Truthen, Inc.* 4,800,21 Digital Truthen, Inc.* 4,900,41 Digital Truthen			102,603			
Verna Mobility Corp.* 24,985 256,846 Clouders, Inc.* (a) 33,264 486,715						
Virtusa Corp.* 5.335 173.227 Comm/sult Systems, Inc.* 7.772 300.776				·		
6,777,991						
Semiconductors & Semiconductor Equipment 2.8% Diginar Corp.* 2,342 37,449 Advanced Energy Industries, Inc.* 7,081 480,021 Domo, Inc.*6** 4,763 183,226 Aphpa & Omega Semiconductor 18,648 283,227 Envastre, Inc.* 3,869 41,083 Ambarella, Inc.* 6,184 283,227 Envastre, Inc.* 3,866 41,083 Ambarella, Inc.* 18,648 229,557 ForeScourt Technologies, Inc.* 8,984 190,461 Aktomera, Inc.* 7,788 34,220 Globalscape, Inc. 8,984 190,461 Aktomera, Inc.* 7,188 34,220 Intelligent Systems Corp.* 8,984 34,711 Brooks Automation, Inc. 13,575 600,558 26,100 Intelligent Systems Corp.* 1,411 47,748 Brooks Automation, Inc. 7,98 34,220 Intelligent Systems Corp.* 1,410 47,748 Brooks Automation, Inc. 7,99 401,493 Miles Systems, Inc.* 1,460 172,103 Cyber Optics Corp.* 1,311 42,227 Milescor* 1,211 9,518 Diddes, Inc.* 7,919 401,493 Miles Systems, Inc.* 1,460 172,103 Brooks, Inc.* 4,066 63,774 Milescortagy, Inc.* 7,561 7,27,103 Diddes, Inc.* 1,460 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461 1,461			· · · · · · · · · · · · · · · · · · ·			
Semiconductors & Semiconductors Semiconductor Semiconductor Semiconductor Carlo Semiconductor Carlo Semiconductor Carlo Ca				•		
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Alpha & Omega Semiconductor Ltd.* 38,697 38,809 Ebix, Inc. [a] 4,937 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,391 110,3	9,	7,081	480,021	Domo, Inc. "B"*	4,763	
Ambareila, Inc.* 6,184 283,227 Envestnet, Inc.* 7,189 34,220 Axocelis Technology, Inc.* 8,685 548,373 CEVA, Inc.* CObu, Inc. 7,802 13,527 CEVA, Inc.* Cobu, Inc. 7,802 13,528 CEVA, Inc. 7,802 13,528 CEVA, Inc.* Cobu, Inc. 7,802 13,528 CEVA, Inc.* Cobu, Inc. 7,802 13,528 CEVA, Inc.* Cobu, Inc. 7,802 13,528 CEVA, Inc. 7,802 13,528 CEVA, Inc. 7,802 13,528 CEVA, Inc.* Cobu, Inc. 7,802 13,528 CEVA, Inc.* Cobu, Inc. 7,802 13,528 CEVA, Inc.* Cobu, Inc. 7,802 13,528 CEVA, Inc. 7,802 13,528					4,937	110,391
Ambarelia, Inc.* 9,920 729,517 Ambarelia, Inc.* 9,920 729,517 Ambarelia, Inc.* 18,688 229,557 Ambarelia, Inc.* 18,684 229,557 Accels Technologies, Inc. 8,894 190,461 Atomera, Inc.* 6,161 171,684 Atomera, Inc.* 7,189 34,220 AxCelia Technologies, Inc. 8,894 190,461 AXT, Inc.* 7,189 34,220 Brooks Automation, Inc. 13,575 600,589 Brooks Automation, Inc. 13,575 600,589 CEVA, Inc.* 4,066 152,150 CeVA, Inc.* 4,066 152,150 CeVA, Inc.* 4,066 152,150 CeVA, Inc.* 11,382 CoVA, Inc.* 4,066 152,150 CoVA, Inc.* 7,802 CoVA, Inc.* 10,547 CoVA, Inc.* 10,547 CoVA, Inc.* 10,547 CoVA, Inc.* 10,547 CoVA, Inc.* 11,582 CoVA, Inc.* 11,583 Co					3,696	41,063
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						18,322,620

	Shares	Value (\$)		Shares	Value (\$)
Technology Hardware, Storage & P	eripherals 0.2	%	Metals & Mining 1.4%		
3D Systems Corp.* (a)	21,450	149,936	Alcoa Corp.*	35,036	393,805
Avid Technology, Inc.*	5,929	43,104	Allegheny Technologies, Inc.*	23,855	243,082
Diebold Nixdorf, Inc.*	12,944	78,441	Arconic Corp.*	18,610	259,237
Eastman Kodak Co.*	2,896	6,458	Caledonia Mining Corp. PLC	2,096	36,303
Immersion Corp.*	3,389	21,113	Carpenter Technology Corp.	8,879	215,582
Intevac, Inc.*	4,316	23,565	Century Aluminum Co.*	9,508	67,792
Quantum Corp.*	5,472	21,122	Cleveland-Cliffs, Inc. (a)	73,806	407,409
Super Micro Computer, Inc.*	8,308	235,864	Coeur Mining, Inc.*	45,297	230,109
		579,603	Commercial Metals Co.	22,227	453,431
Materials 3.9%			Compass Minerals International,	0.050	000 055
			Inc.	6,356	309,855
Chemicals 1.7%			Ferroglobe Representation & Warranty Insurance Trust		
Advanced Emissions Solutions, Inc.	3,155	15,302	(Beneficial Units) (b)	12,466	0
AdvanSix, Inc.*	4,949	58,101	Gold Resource Corp.	12,566	51,646
AgroFresh Solutions, Inc.*	5,534	16,768	Haynes International, Inc. (a)	2,331	54,452
American Vanguard Corp.	5,355	73,685	Hecla Mining Co.	97,852	319,976
Amyris, Inc.* (a)	13,102	55,946	Kaiser Aluminum Corp.	2,903	213,719
Balchem Corp.	6,033	572,290	Materion Corp.	3,755	230,895
Chase Corp.	1,355	138,887	Novagold Resources, Inc.*	44,415	407,730
Ferro Corp.*	15,225	181,786	Olympic Steel, Inc.	1,747	20,527
FutureFuel Corp.	5,037	60,192	Ryerson Holding Corp.*	2,757	15,522
GCP Applied Technologies, Inc.*	9,122	169,487	Schnitzer Steel Industries,	_/	,
H.B. Fuller Co.	9,633	429,632	Inc. "A"	4,930	86,965
Hawkins, Inc.	1,844	78,518	SunCoke Energy, Inc.	15,578	46,111
Ingevity Corp.*	7,736	406,682	TimkenSteel Corp.*	7,873	30,626
Innospec, Inc.	4,583	354,037	United States Steel Corp.	40,977	295,854
Intrepid Potash, Inc.*	17,507	17,332	Warrior Met Coal, Inc.	9,631	148,221
Koppers Holdings, Inc.*	3,841	72,364	Worthington Industries, Inc.	6,946	259,086
Kraton Corp.*	5,678	98,116		_	4,797,935
Kronos Worldwide, Inc.	4,054	42,202			4,707,000
Livent Corp.* (a)	27,308	168,217	Paper & Forest Products 0.5%	7.000	070.040
Marrone Bio Innovations, Inc.*	14,896	17,428	Boise Cascade Co.	7,260	273,049
Minerals Technologies, Inc.	6,366	298,756	Clearwater Paper Corp.*	3,051	110,233
Orion Engineered Carbons SA	11,259	119,233	Domtar Corp.	10,281	217,032
PolyOne Corp.	16,971	445,149	Louisiana-Pacific Corp.	21,165	542,882
PQ Group Holdings, Inc.*	7,265	96,189	Neenah, Inc. P.H. Glatfelter Co. (a)	3,103	153,474
Quaker Chemical Corp.	2,482	460,783	• •	8,086	129,780
Rayonier Advanced Materials, Inc.	11,595	32,582	Schweitzer-Mauduit International, Inc.	5,870	196,117
Sensient Technologies Corp.	7,973	415,872	Verso Corp. "A"	6,654	79,582
Stepan Co. Trecora Resources*	4,024 4,817	390,730	verse corp. A	0,054_	· · · · · · · · · · · · · · · · · · ·
	4,817	30,203 75,691			1,702,149
Tredegar Corp. Trinseo SA	7,074	156,760	Real Estate 6.9%		
Tronox Holdings PLC "A"*	17,022	122,899	Equity Real Estate Investment Trust	s (REITs) 6.2	%
TOTOX Floralligs I LO A	.,,022	· · · · · · · · · · · · · · · · · · ·	Acadia Realty Trust	15,811	205,227
		5,671,819	Agree Realty Corp.	9,926	652,237
Construction Materials 0.1%			Alexander & Baldwin, Inc.	13,592	165,686
Forterra, Inc.*	3,722	41,538	Alexander's, Inc.	393	94,674
Summit Materials, Inc. "A"*	21,992	353,631	Alpine Income Property Trust, Inc.	1,264	20,553
U.S. Concrete, Inc.*	3,060	75,888	American Assets Trust, Inc.	9,401	261,724
United States Lime & Minerals,			American Finance Trust, Inc.	20,698	164,239
Inc.	377	31,834	Armada Hoffler Properties, Inc.	10,475	104,226
		502,891	Bluerock Residential Growth REIT,		
Containers & Packaging 0.2%		-	Inc.	4,525	36,562
Greif, Inc. "A"	4,862	167,301	BRT Apartments Corp.	1,928	20,861
Greif, Inc. "A"	1,062	44,424	CareTrust REIT, Inc.	17,833	306,014
Myers Industries, Inc.	6,694	97,398	CatchMark Timber Trust, Inc. "A"	9,262	81,969
O-i Glass, Inc.	29,280	262,934	Chatham Lodging Trust	9,013	55,160
Ranpak Holdings Corp. Common	20,200	202,004	CIM Commercial Trust Corp.	1,935	20,859
St*	5,373	39,975	City Office REIT, Inc.	8,749	88,015
UFP Technologies, Inc.*	1,287	56,705	Clipper Realty, Inc.	2,541	20,582
	_	668,737	Columbia Proporty Trust, Inc.	90,738	217,771
		000,737	Columbia Property Trust, Inc.	21,403	281,235

_	Shares	Value (\$)		Shares	Value (\$)
Community Healthcare Trust, Inc.	3,931	160,778	Saul Centers, Inc.	2,225	71,801
CoreCivic, Inc.	22,297	208,700	Seritage Growth Properties "A"* (a)	6,501	74,111
CorEnergy Infrastructure Trust, Inc.	2,726	24,943	Service Properties Trust	30,628	217,153
CorePoint Lodging, Inc.	7,385	31,091	SITE Centers Corp.	28,622	231,838
DiamondRock Hospitality Co.	37,466	207,187	STAG Industrial, Inc.	27,983	820,462
Diversified Healthcare Trust	44,335	196,182	Summit Hotel Properties, Inc.	18,884	111,982
Easterly Government Properties,	14.000	005 000	Sunstone Hotel Investors, Inc.	40,176	327,434
Inc. EastGroup Properties, Inc.	14,086	325,668	Tanger Factory Outlet Centers,	16 000	120 254
Essential Properties Realty Trust,	7,214	855,653	Inc. (a) Terreno Realty Corp.	16,880 12,446	120,354 655,157
Inc.	17,028	252,696	The Geo Group, Inc.	21,849	258,474
Farmland Partners, Inc.	5,124	35,099	The Macerich Co.	26,517	237,858
Four Corners Property Trust, Inc.	13,127	320,299	UMH Properties, Inc.	6,822	88,208
Franklin Street Properties Corp.	19,748	100,517	Uniti Group, Inc.	36,097	337,507
Front Yard Residential Corp.	9,154	79,640	Universal Health Realty Income		
Getty Realty Corp.	6,351	188,498	Trust	2,402	190,935
Gladstone Commercial Corp.	6,360	119,250	Urban Edge Properties	21,871	259,609
Gladstone Land Corp.	3,517	55,780	Urstadt Biddle Properties "A"	5,417	64,354
Global Medical REIT, Inc. Global Net Lease, Inc.	7,591 16,823	86,006 281,449	Washington Real Estate Investment Trust	15,350	340,770
Healthcare Realty Trust, Inc.	25,221	738,723	Whitestone REIT	7,288	52,984
Hersha Hospitality Trust	6,188	35,643	Xenia Hotels & Resorts, Inc.	21,176	197,572
Independence Realty Trust, Inc.	17,672	203,051			20,857,120
Industrial Logistics Properties	,				20,857,120
Trust	12,208	250,874	Real Estate Management & Develop		10.067
Innovative Industrial Properties,	0.117	074.050	Altisource Portfolio Solutions SA* American Realty Investors, Inc.*	683 447	10,067 4,019
Inc. Investors Real Estate Trust	3,117 2,271	274,358 160,083	Cto Realty Growth, Inc.	809	31,956
iStar, Inc.	13,840	170,509	Cushman & Wakefield PLC* (a)	20,641	257,187
Jernigan Capital, Inc.	4,003	54,761	EXP World Holdings, Inc.* (a)	4,445	75,787
Kite Realty Group Trust	15,511	178,997	Forestar Group, Inc.*	3,265	49,236
Lexington Realty Trust	47,769	503,963	FRP Holdings, Inc.*	1,235	50,116
LTC Properties, Inc.	7,253	273,221	Griffin Land & Nurseries, Inc.	477	25,839
Mack-Cali Realty Corp.	16,970	259,471	Kennedy-Wilson Holdings, Inc.	22,948	349,269
Monmouth Real Estate			Marcus & Millichap, Inc.*	4,292	123,867
Investment Corp.	17,831	258,371	Maui Land & Pineapple Co., Inc.*	1,307	14,508
National Health Investors, Inc.	8,037	488,007	Newmark Group, Inc. "A"	26,985	131,147
National Storage Affiliates Trust New Senior Investment Group,	11,552	331,080	Rafael Holdings, Inc. "B"* RE/MAX Holdings, Inc. "A"	1,586 3,367	22,791 105,825
Inc.	14,659	53,066	Realogy Holdings Corp.	21,417	158,700
NexPoint Residential Trust, Inc.	4,040	142,814	Redfin Corp.*	17,919	750,985
Office Properties Income Trust	9,026	234,405	Stratus Properties, Inc.*	1,152	22,821
One Liberty Properties, Inc.	2,995	52,772	Tejon Ranch Co.*	4,078	58,723
Pebblebrook Hotel Trust	24,188	330,408	The RMR Group, Inc. "A"	2,877	84,785
Physicians Realty Trust	37,907	664,131	The St. Joe Co.* (a)	6,175	119,918
Piedmont Office Realty Trust, Inc. "A"	23,640	392,660	Transcontinental Realty Investors,	202	0.700
Plymouth Industrial Reit, Inc.	23,040	35,187	Inc.*	292_	8,766
PotlatchDeltic Corp.	12,181	463,243			2,456,312
Preferred Apartment			Utilities 3.6%		
Communities, Inc. "A"	8,958	68,081	Electric Utilities 0.9%		
PS Business Parks, Inc.	3,760	497,824	ALLETE, Inc.	9,752	532,557
QTS Realty Trust, Inc. "A"	11,216	718,833	El Paso Electric Co.	7,628	511,076
Retail Opportunity Investments Corp.	21,540	244,048	Genie Energy Ltd. "B"	2,658	19,563
Retail Properties of America,	21,540	244,040	MGE Energy, Inc.	6,508	419,831
Inc. "A"	40,071	293,320	Otter Tail Corp.	7,509	291,274
Retail Value, Inc.	3,076	38,019	PNM Resources, Inc. Portland General Electric Co.	14,780 16,824	568,143
RLJ Lodging Trust	30,674	289,563		2,257	703,412 15,957
RPT Realty	15,334	106,725	Spark Energy, Inc. "A"	2,201_	
Ryman Hospitality Properties, Inc.	9,427	326,174			3,061,813
Sabra Health Care REIT, Inc.	38,374	553,737	Gas Utilities 1.2%		
Safehold, Inc.	3,225	185,405	Brookfield Infrastructure Corp.	6,076	276,701
			Chesapeake Utilities Corp. (a)	3,029	254,436

_	Shares	Value (\$)		Shares	Value (\$)
New Jersey Resources Corp.	17,859	583,096	Warrants 0.0%		
Northwest Natural Holding Co.	5,696	317,780	Health Care		
ONE Gas, Inc.	9,803	755,321	Pulse Biosciences, Inc.		
RGC Resources, Inc.	1,518	36,690	Expiration Date 5/14/2025* (b)		
South Jersey Industries, Inc.	17,223	430,403	(Cost \$0)	66	500
Southwest Gas Holdings, Inc.	10,321	712,665	(ΟΟ3ί ΦΟ)	00	300
Spire, Inc.	9,383	616,557		Principal	
	_	3,983,649		Amount (\$)	Value (\$)
Independent Power & Renewable	Electricity Prod	ducers 0.4%	Government & Agency O	bligations (0.4%
Atlantic Power Corp.*	17,060	34,120	U.S. Treasury Obligation	3	
Clearway Energy, Inc. "A" (a)	6,539	137,123	U.S. Treasury Bill, 1.47% **,		
Clearway Energy, Inc. "C"	14,862	342,718	7/16/2020 (c)		
Ormat Technologies, Inc.	7,475	474,588	(Cost \$1,519,069)	1,520,000	1,519,919
Sunnova Energy International,	,	,	(Cost \$1,519,009)	1,520,000	1,515,515
Inc.*	6,050	103,273		Shares	Value (\$)
TerraForm Power, Inc. "A"	16,378	302,010			value (\$)
	_	1,393,832	Securities Lending Collat	eral 4.1%	
Multi-Utilities 0.5%		.,,	DWS Government & Agency		
Avista Corp.	12,589	458,114	Securities Portfolio "DWS		
Black Hills Corp.	11,761	666,378	Government Cash Institutional		
NorthWestern Corp.	9,506	518,267	Shares", 0.05% (d) (e)		
Unitil Corp.	2,773	124,286	(Cost \$13,979,922)	13,979,922	13,979,922
Office Corp.	2,773_	<u> </u>			
		1,767,045	Cash Equivalents 1.5%		
Water Utilities 0.6%			•		
American States Water Co.	6,890	541,761	DWS Central Cash Management		
Artesian Resources Corp. "A"	1,500	54,435	Government Fund, 0.12% (d)		
Cadiz, Inc.*	3,724	37,836	(Cost \$5,045,953)	5,045,953	5,045,953
California Water Service Group	9,108	434,451			
Consolidated Water Co., Ltd.	2,551	36,811		% of Net	
Global Water Resources, Inc.	2,526	26,624		Assets	Value (\$)
Middlesex Water Co.	3,203	215,177	Total Investment Portfolio		
Pure Cycle Corp.*	3,525	32,395	(Cost \$334,117,393)	103.6	350,938,569
SJW Group	4,903	304,525	Other Assets and Liabilities, Net	(3.6)	(12,277,030
York Water Co.	2,383	114,289			
		1,798,304	Net Assets	100.0	338,661,539
Total Common Stocks (Cost \$313,	572.094)	330,391,221			
2 32 2 32 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- /				
Rights 0.0%					
11191113 0.0 /0					

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GTX, Inc.* (a) (b) Omthera Pharmaceutical, Inc.* (b)	123 1,167	252 700
Tobira Therapeutics, Inc.* (b)	1,687	102
Total Rights (Cost \$355)		1,054

A summary of the Fund's transactions with affiliated investments during the period ended June 30, 2020 are as follows:

Value (\$) at 12/31/2019	Purchases Cost (\$)	Sales Proceeds (\$)	Net Realized Gain/ (Loss) (\$)	Net Change in Unrealized Appreciation (Depreciation) (\$)	Income (\$)	Capital Gain Distributions (\$)	Number of Shares at 6/30/2020	Value (\$) at 6/30/2020
	ending Collat ment & Agen —			Government Cash Ir —	nstitutional Sha 196,169	ares", 0.05% (d) (e)	13,979,922	13,979,922
Cash Equiva DWS Central 5,850,788		ement Governm 86,331,548	ent Fund, 0.´	12% (d) —	22,706	_	5,045,953	5,045,953
20,654,452	85,526,713	87,155,290	_	_	218,875	_	19,025,875	19,025,875

Non-income producing security.

- ** Annualized yield at time of purchase; not a coupon rate.
- (a) All or a portion of these securities were on loan. In addition, "Other Assets and Liabilities, Net" may include pending sales that are also on loan. The value of securities loaned at June 30, 2020 amounted to \$20,102,251, which is 5.9% of net assets.
- (b) Investment was valued using significant unobservable inputs.
- (c) At June 30, 2020, this security has been pledged, in whole or in part, to cover initial margin requirements for open futures contracts.
- (d) Affiliated fund managed by DWS Investment Management Americas, Inc. The rate shown is the annualized seven-day yield at period
- Represents cash collateral held in connection with securities lending. Income earned by the Fund is net of borrower rebates. In (e) addition, the Fund held non-cash U.S. Treasury securities collateral having a value of \$6,895,104.
- Represents the net increase (purchase cost) or decrease (sales proceeds) in the amount invested in cash collateral for the period ended June 30, 2020.

144A: Security exempt from registration under Rule 144A of the Securities Act of 1933. These securities may be resold in transactions exempt from registration, normally to qualified institutional buyers.

At June 30, 2020, open futures contracts purchased were as follows:

Futures	Currency	Expiration Date	Contracts	Notional Amount (\$)	Notional Value (\$)	Unrealized Appreciation (\$)
Russell E Mini 2000 Index	USD	9/18/2020	109	7,532,144	7,834,920	302,776

Currency Abbreviation

USD United States Dollar

For information on the Fund's policy and additional disclosures regarding futures contracts, please refer to the Derivatives section of Note B in the accompanying Notes to Financial Statements

Fair Value Measurements

Various inputs are used in determining the value of the Fund's investments. These inputs are summarized in three broad levels. Level 1 includes quoted prices in active markets for identical securities. Level 2 includes other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds and credit risk). Level 3 includes significant unobservable inputs (including the Fund's own assumptions in determining the fair value of investments). The level assigned to the securities valuations may not be an indication of the risk or liquidity associated with investing in those securities.

The following is a summary of the inputs used as of June 30, 2020 in valuing the Fund's investments. For information on the Fund's policy regarding the valuation of investments, please refer to the Security Valuation section of Note A in the accompanying Notes to Financial Statements.

Assets	Level 1	Level 2	Level 3	Total
Common Stocks (g)	\$330,391,221	\$ —	\$ 0	\$330,391,221
Rights (g)	_	_	1,054	1,054
Warrants	_	_	500	500
Government & Agency Obligation	_	1,519,919	_	1,519,919
Short-Term Investments (g)	19,025,875	_	_	19,025,875
Derivatives (h) Futures Contracts	302,776	_	_	302,776
Total	\$349,719,872	\$1,519,919	\$1,554	\$351,241,345

- (g) See Investment Portfolio for additional detailed categorizations.
- (h) Derivatives include unrealized appreciation (depreciation) on open futures contracts.

Statement of **Assets and Liabilities**

as of June 30, 2020 (Unaudited)

Assets		
Investments in non-affiliated securities, at value (cost \$315,091,518) — including \$20,102,251 of securities loaned	\$33	1,912,694
Investment in DWS Government & Agency Securities Portfolio (cost \$13,979,922)*	13	3,979,922
Investment in DWS Central Cash Management Government Fund (cost \$5,045,953)	Ę	5,045,953
Cash	,	1,013,449
Receivable for investments sold	•	1,643,225
Receivable for Fund shares sold		670,007
Dividends receivable		295,455
Interest receivable		34,827
Receivable for variation margin on futures contracts		79,351
Other assets		3,192
Total assets	354	1,678,075
Liabilities		
Payable upon return of securities loaned	13	3,979,922
Payable for investments purchased		1,525,869
Payable for Fund shares redeemed		327,483
Accrued management fee		65,623
Accrued Trustees' fees		4,098
Other accrued expenses and payables		113,541
Total liabilities	16	6,016,536
Net assets, at value	\$338	3,661,539
Net Assets Consist of		
Distributable earnings (loss)	26	5,271,215
Paid-in capital	312	2,390,324
Net assets, at value	\$338	3,661,539
Net Asset Value		
Class A Net Asset Value and redemption price per share (\$309,329,003 ÷ 24,490,153 outstanding shares of beneficial interest, \$.001 par value, unlimited number of shares authorized)	\$	12.63
Class B		12.50
Net Asset Value offering and redemption price per share ($$29,332,536 \div 2,320,191$ outstanding shares of beneficial interest, \$.001 par value,		
unlimited number of shares authorized)	\$	12.64

Represents collateral on securities loaned. In addition, the Fund held non-cash collateral having a value of \$6,895,104.

Statement of Operations

for the six months ended June 30, 2020 (Unaudited)

Investment Income	
Income: Dividends (net of foreign taxes withheld of \$1,796)	\$ 2,242,157
Interest	9,906
Income distributions — DWS Central Cash Management Government Fund	22,706
Securities lending income, net of borrower rebates	196,169
Total income	2,470,938
Expenses: Management fee	566,505
Administration fee	158,871
Services to Shareholders	1,445
Recordkeeping fee (Class B)	4,594
Distribution service fee (Class B)	34,924
Custodian fee	9,474
Professional fees	37,036
Reports to shareholders	29,954
Trustees' fees and expenses	9,662
Other	11,687
Total expenses before expense reductions	864,152
Expense reductions	(195,381)
Total expenses after expense reductions	668,771
Net investment income	1,802,167
Realized and Unrealized Gain (Loss)	
Net realized gain (loss) from: Investments	13,458,895
Futures	(1,249,785)
	12,209,110
Change in net unrealized appreciation (depreciation) on:	
Investments	(61,264,381)
Futures	301,117
	(60,963,264)
Net gain (loss)	(48,754,154)
Net increase (decrease) in net assets resulting from operations	\$(46,951,987)

Statements of Changes in Net Assets

Increase (Decrease) in Net Assets	Six Months Ended June 30, 2020 (Unaudited)	Year Ended December 31, 2019
Operations: Net investment income (loss)	\$ 1.802.167	\$ 3.723.016
	, , , , , ,	, ., .
Net realized gain (loss)	12,209,110	34,227,399
Change in net unrealized appreciation (depreciation)	(60,963,264)	44,229,913
Net increase (decrease) in net assets resulting from operations	(46,951,987)	82,180,328
Distributions to shareholders: Class A	(36,874,155)	(33,194,342)
Class B	(3,407,812)	(2,947,799)
Total distributions	(40,281,967)	(36,142,141)
Fund share transactions: Class A		
Proceeds from shares sold	69,688,318	84,958,254
Reinvestment of distributions	36,874,155	33,194,342
Payments for shares redeemed	(70,532,130)	(115,504,018)
Net increase (decrease) in net assets from Class A share transactions	36,030,343	2,648,578
Class B Proceeds from shares sold	2,852,761	5,070,105
Reinvestment of distributions	3,407,812	2,947,799
Payments for shares redeemed	(2,452,476)	(6,737,215)
Net increase (decrease) in net assets from Class B share transactions	3,808,097	1,280,689
Increase (decrease) in net assets	(47,395,514)	49,967,454
Net assets at beginning of period	386,057,053	336,089,599
Net assets at end of period	\$ 338,661,539	\$ 386,057,053
Other Information		
Class A Shares outstanding at beginning of period	20,802,116	20,590,649
Shares sold	5,365,078	5,220,842
Shares issued to shareholders in reinvestment of distributions	3,475,415	2,089,008
Shares redeemed	(5,152,456)	(7,098,383)
Net increase (decrease) in Class A shares	3,688,037	211,467
Shares outstanding at end of period	24,490,153	20,802,116
Class B Shares outstanding at beginning of period	1,943,200	1,861,335
Shares sold	235,502	317,699
Shares issued to shareholders in reinvestment of distributions	320,584	185,163
Shares redeemed	(179,095)	(420,997)
Net increase (decrease) in Class B shares	376,991	81,865
Shares outstanding at end of period	2,320,191	1,943,200

Financial Highlights

	_	Six Months ded 6/30/20		Vacua F	nded Decer	h u 21	
Class A		Unaudited)	2019	2018	2017	2016	2015
Selected Per Share Data							
Net asset value, beginning of period	\$	16.97	\$14.97	\$18.29	\$16.78	\$15.18	\$17.33
Income (loss) from investment operations:							
Net investment income (loss) ^a		.08	.17	.19	.17	.18	.19
Net realized and unrealized gain (loss)		(2.67)	3.49	(2.06)	2.16	2.76	(.87)
Total from investment operations		(2.59)	3.66	(1.87)	2.33	2.94	(.68)
Less distributions from:							
Net investment income		(.17)	(.18)	(.18)	(.17)	(.17)	(.18)
Net realized gains		(1.58)	(1.48)	(1.27)	(.65)	(1.17)	(1.29)
Total distributions		(1.75)	(1.66)	(1.45)	(.82)	(1.34)	(1.47)
Net asset value, end of period	\$	12.63	\$16.97	\$14.97	\$18.29	\$16.78	\$15.18
Total Return (%) ^b		(13.26)**	25.22	(11.23)	14.33	21.03	(4.60)
Ratios to Average Net Assets and Supplemental Data							
Net assets, end of period (\$ millions)		309	353	308	360	343	284
Ratio of expenses before expense reductions (%)c		.51*	.53	.51	.51	.53	.54
Ratio of expenses after expense reductions (%)c		.39*	.39	.41	.44	.45	.45
Ratio of net investment income (loss) (%)		1.14*	1.04	1.03	1.00	1.25	1.14
Portfolio turnover rate (%)		20**	22	17	15	18	21

Based on average shares outstanding during the period.

Not annualized

	_	Six Months ded 6/30/20		Vacua E	adad Dasas	h u 21	
Class B		Jnaudited)	2019	2018	nded Decei 2017	2016	2015
Selected Per Share Data							
Net asset value, beginning of period	\$	16.97	\$14.97	\$18.28	\$16.77	\$15.17	\$17.31
Income (loss) from investment operations:							
Net investment income (loss) ^a		.06	.12	.14	.13	.15	.14
Net realized and unrealized gain (loss)		(2.67)	3.49	(2.05)	2.15	2.75	(.86)
Total from investment operations		(2.61)	3.61	(1.91)	2.28	2.90	(.72)
Less distributions from:							
Net investment income		(.14)	(.13)	(.13)	(.12)	(.13)	(.13)
Net realized gains		(1.58)	(1.48)	(1.27)	(.65)	(1.17)	(1.29)
Total distributions		(1.72)	(1.61)	(1.40)	(.77)	(1.30)	(1.42)
Net asset value, end of period	\$	12.64	\$16.97	\$14.97	\$18.28	\$16.77	\$15.17
Total Return (%) ^b		(13.44)**	24.87	(11.42)	14.03	20.71	(4.85)
Ratios to Average Net Assets and Supplemental Data							
Net assets, end of period (\$ millions)		29	33	28	35	30	25
Ratio of expenses before expense reductions (%)c		.79*	.81	.80	.78	.78	.79
Ratio of expenses after expense reductions (%)c		.66*	.65	.67	.70	.71	.71
Ratio of net investment income (loss) (%)		.87*	.76	.77	.76	.99	.88
Portfolio turnover rate (%)		20**	22	17	15	18	21

Based on average shares outstanding during the period.

Total return would have been lower had certain expenses not been reduced.

Expense ratio does not reflect charges and fees associated with the separate account that invests in the Fund or any variable life insurance policy or variable annuity contract for which the Fund is an investment option.

Annualized

b Total return would have been lower had certain expenses not been reduced.

Expense ratio does not reflect charges and fees associated with the separate account that invests in the Fund or any variable life insurance policy or variable annuity contract for which the Fund is an investment option.

Annualized

Not annualized

Notes to Financial Statements

A. Organization and Significant Accounting Policies

Deutsche DWS Investments VIT Funds (the "Trust") is registered under the Investment Company Act of 1940, as amended (the "1940 Act"), as an open-end management investment company. The Trust is organized as a Massachusetts business trust. DWS Small Cap Index VIP (the "Fund") is a diversified series of the Trust offered to investors. The Fund is an underlying investment vehicle for variable annuity contracts and variable life insurance policies to be offered by the separate accounts of certain life insurance companies ("Participating Insurance Companies").

Multiple Classes of Shares of Beneficial Interest. The Fund offers two classes of shares to investors: Class A shares and Class B shares. Class B shares are subject to Rule 12b-1 distribution fees under the 1940 Act and recordkeeping fees equal to an annual rate of 0.25% and up to 0.15%, respectively, of the Class B shares average daily net assets. Class A shares are not subject to such fees.

Investment income, realized and unrealized gains and losses, and certain fund-level expenses and expense reductions, if any, are borne pro rata on the basis of relative net assets by the holders of all classes of shares, except that each class bears certain expenses unique to that class (including the applicable Rule 12b-1 distribution fees). Differences in class-level expenses may result in payment of different per share dividends by class. All shares have equal rights with respect to voting subject to class-specific arrangements.

The Fund's financial statements are prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") which require the use of management estimates. Actual results could differ from those estimates. The Fund qualifies as an investment company under Topic 946 of Accounting Standards Codification of U.S. GAAP. The policies described below are followed consistently by the Fund in the preparation of its financial statements.

Security Valuation. Investments are stated at value determined as of the close of regular trading on the New York Stock Exchange on each day the exchange is open for trading.

Various inputs are used in determining the value of the Fund's investments. These inputs are summarized in three broad levels. Level 1 includes quoted prices in active markets for identical securities. Level 2 includes other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds and credit risk). Level 3 includes significant unobservable inputs (including the Fund's own assumptions in determining the fair value of investments). The level assigned to the securities valuations may not be an indication of the risk or liquidity associated with investing in those securities.

Equity securities are valued at the most recent sale price or official closing price reported on the exchange (U.S. or foreign) or over-the-counter market on which they trade. Securities for which no sales are reported are valued at the calculated mean between the most recent bid and asked quotations on the relevant market or, if a mean cannot be determined, at the most recent bid quotation. Equity securities are generally categorized as Level 1.

Debt securities are valued at prices supplied by independent pricing services approved by the Fund's Board. If the pricing services are unable to provide valuations, securities are valued at the most recent bid quotation or evaluated price, as applicable, obtained from one or more broker-dealers. Such services may use various pricing techniques which take into account appropriate factors such as yield, quality, coupon rate, maturity, type of issue, trading characteristics and other data, as well as broker quotes. These securities are generally categorized as Level 2.

Investments in open-end investment companies are valued at their net asset value each business day and are categorized as Level 1.

Futures contracts are generally valued at the settlement prices established each day on the exchange on which they are traded and are categorized as Level 1.

Securities and other assets for which market quotations are not readily available or for which the above valuation procedures are deemed not to reflect fair value are valued in a manner that is intended to reflect their fair value as determined in accordance with procedures approved by the Board and are generally categorized as Level 3. In accordance with the Fund's valuation procedures, factors considered in determining value may include, but are not limited to, the type of the security; the size of the holding; the initial cost of the security; the existence of any contractual restrictions on the security's disposition; the price and extent of public trading in similar securities of the issuer or of comparable companies; quotations or evaluated prices from broker-dealers and/or pricing services; information obtained from the issuer, analysts,

and/or the appropriate stock exchange (for exchange-traded securities); an analysis of the company's or issuer's financial statements; an evaluation of the forces that influence the issuer and the market(s) in which the security is purchased and sold; and with respect to debt securities, the maturity, coupon, creditworthiness, currency denomination and the movement of the market in which the security is normally traded. The value determined under these procedures may differ from published values for the same securities.

Disclosure about the classification of fair value measurements is included in a table following the Fund's Investment Portfolio.

Securities Lending. Brown Brothers Harriman & Co. serves as securities lending agent for the Fund, lends securities of the Fund to certain financial institutions under the terms of its securities lending agreement. During the term of the loans, the Fund continues to receive interest and dividends generated by the securities and to participate in any changes in their market value. The Fund requires the borrowers of the securities to maintain collateral with the Fund consisting of either cash and/or U.S. Treasury Securities having a value at least equal to the value of the securities loaned. When the collateral falls below specified amounts, the lending agent will use its best effort to obtain additional collateral on the next business day to meet required amounts under the securities lending agreement. During the six months ended June 30, 2020, the Fund invested the cash collateral into a joint trading account in DWS Government & Agency Securities Portfolio, an affiliated money market fund managed by DWS Investment Management Americas, Inc. DWS Investment Management Americas, Inc. receives a management/administration fee (0.11% annualized effective rate as of June 30, 2020) on the cash collateral invested in DWS Government & Agency Securities Portfolio. The Fund receives compensation for lending its securities either in the form of fees or by earning interest on invested cash collateral net of borrower rebates and fees paid to a lending agent. Either the Fund or the borrower may terminate the loan at any time, and the borrower, after notice, is required to return borrowed securities within a standard time period. There may be risks of delay and costs in recovery of securities or even loss of rights in the collateral should the borrower of the securities fail financially. If the Fund is not able to recover securities lent, the Fund may sell the collateral and purchase a replacement investment in the market, incurring the risk that the value of the replacement security is greater than the value of the collateral. The Fund is also subject to all investment risks associated with the reinvestment of any cash collateral received, including, but not limited to, interest rate, credit and liquidity risk associated with such investments.

As of June 30, 2020, the Fund had securities on loan, which were classified as common stock and rights in the Investment Portfolio. The value of the related collateral exceeded the value of the securities loaned at

Remaining Contractual Maturity of the Agreements as of June 30, 2020

	Overnight and Continuous	and		Between 30 & 90 days		>90 days	Total	
Securities Lending Transactions Common Stocks	\$13,979,878	\$	_	\$	_	\$6,895,104	\$20,874,982	
Rights	44				_	_	44	
Total Borrowings	\$13,979,922	\$	_	\$	_	\$6,895,104	\$20,875,026	

Gross amount of recognized liabilities for securities lending transactions:

\$20.875.026

Federal Income Taxes. The Fund's policy is to comply with the requirements of the Internal Revenue Code, as amended, which are applicable to regulated investment companies, and to distribute all of its taxable income to its shareholders.

At June 30, 2020, the aggregate cost of investments for federal income tax purposes was \$338,935,436. The net unrealized appreciation for all investments based on tax cost was \$12,003,133. This consisted of aggregate gross unrealized appreciation for all investments for which there was an excess of value over tax cost of \$71,966,408 and aggregate gross unrealized depreciation for all investments for which there was an excess of tax cost over value of \$59,963,275.

The Fund has reviewed the tax positions for the open tax years as of December 31, 2019 and has determined that no provision for income tax and/or uncertain tax positions is required in the Fund's financial statements. The Fund's federal tax returns for the prior three fiscal years remain open subject to examination by the Internal Revenue Service.

Distribution of Income and Gains. Net investment income of the Fund, if any, is distributed to shareholders annually. Net realized gains from investment transactions, in excess of available capital loss carryforwards, would be taxable to the Fund if not distributed, and, therefore, will be distributed to shareholders at least annually. The Fund may also make additional distributions for tax purposes if necessary.

The timing and characterization of certain income and capital gain distributions are determined annually in accordance with federal tax regulations, which may differ from accounting principles generally accepted in the United States of America. These differences primarily relate to investments in futures contracts and certain securities sold at a loss. As a result, net investment income (loss) and net realized gain (loss) on investment transactions for a reporting period may differ significantly from distributions during such period. Accordingly, the Fund may periodically make reclassifications among certain of its capital accounts without impacting the net asset value of the Fund.

The tax character of current year distributions will be determined at the end of the current fiscal year.

Contingencies. In the normal course of business, the Fund may enter into contracts with service providers that contain general indemnification clauses. The Fund's maximum exposure under these arrangements is unknown, as this would involve future claims that may be made against the Fund that have not yet been made. However, based on experience, the Fund expects the risk of loss to be remote.

Expenses. Expenses of the Trust arising in connection with a specific fund are allocated to that fund. Other Trust expenses which cannot be directly attributed to a fund are apportioned among the funds in the Trust based upon the relative net assets or other appropriate measures.

Real Estate Investment Trusts. The Fund at its fiscal year end recharacterizes distributions received from a Real Estate Investment Trust ("REIT") investment based on information provided by the REIT into the following categories: ordinary income, long-term and short-term capital gains, and return of capital. If information is not available timely from a REIT, the recharacterization will be estimated for financial statement purposes and a recharacterization will be made within the accounting records in the following year when such information becomes available. Distributions received from REITs in excess of income are recorded as either a reduction of cost of investments or realized gains.

Other. Investment transactions are accounted for on a trade date plus one basis for daily net asset value calculations. However, for financial reporting purposes, investment transactions are reported on trade date. Interest income is recorded on the accrual basis. Dividend income is recorded on the ex-dividend date net of foreign withholding taxes. Realized gains and losses from investment transactions are recorded on an identified cost basis. Proceeds from litigation payments, if any, are included in net realized gain (loss) from investments.

B. Derivative Instruments

A futures contract is an agreement between a buyer or seller and an established futures exchange or its clearinghouse in which the buyer or seller agrees to take or make a delivery of a specific amount of a financial instrument at a specified price on a specific date (settlement date). For the six months ended June 30, 2020, the Fund invested in futures to keep cash on hand to meet shareholder redemptions or other needs while maintaining exposure to the stock market.

Upon entering into a futures contract, the Fund is required to deposit with a financial intermediary cash or securities ("initial margin") in an amount equal to a certain percentage of the face value indicated in the futures contract. Subsequent payments ("variation margin") are made or received by the Fund dependent upon the daily fluctuations in the value and are recorded for financial reporting purposes as unrealized gains or losses by the Fund. Gains or losses are realized when the contract expires or is closed. Since all futures contracts are exchange traded, counterparty risk is minimized as the exchange's clearinghouse acts as the counterparty, and guarantees the futures against default.

Certain risks may arise upon entering into futures contracts, including the risk that an illiquid market will limit the Fund's ability to close out a futures contract prior to the settlement date and the risk that the futures contract is not well correlated with the security, index or currency to which it relates. Risk of loss may exceed amounts disclosed in the Statement of Assets and Liabilities.

A summary of the open futures contracts as of June 30, 2020, is included in a table following the Fund's Investment Portfolio. For the six months ended June 30, 2020, the investment in futures contracts purchased had a total notional value generally indicative of a range from \$7,230,000 to approximately \$7,835,000.

The following tables summarize the value of the Fund's derivative instruments held as of June 30, 2020 and the related location in the accompanying Statement of Assets and Liabilities, presented by primary underlying risk exposure:

Asset Derivative	Contracts
Equity Contracts (a)	\$ 302,776

The above derivative is located in the following Statement of Assets and Liabilities account:

(a) Includes cumulative appreciation of futures contracts as disclosed in the Investment Portfolio. Unsettled variation margin is disclosed separately within the Statement of Assets and Liabilities.

Additionally, the amount of unrealized and realized gains and losses on derivative instruments recognized in Fund earnings during the six months ended June 30, 2020 and the related location in the accompanying Statement of Operations is summarized in the following tables by primary underlying risk exposure:

Realized Gain (Loss)	Futures Contracts
Equity Contracts (b)	\$ (1,249,785)

The above derivative is located in the following Statement of Operations account:

(b) Net realized gain (loss) from futures

Change in Net Unrealized Appreciation (Depreciation)	Futures Contracts
Equity Contracts (c)	\$ 301,117

The above derivative is located in the following Statement of Operations account:

(c) Change in net unrealized appreciation (depreciation) on futures

C. Purchases and Sales of Securities

During the six months ended June 30, 2020, purchases and sales of investment securities (excluding shortterm investments) aggregated \$63,775,248 and \$63,606,714, respectively.

D. Related Parties

Investment Management Agreement. Under the Investment Management Agreement with DWS Investment Management Americas, Inc. ("DIMA" or the "Advisor"), an indirect, wholly owned subsidiary of DWS Group GmbH & Co. KGaA ("DWS Group"), the Advisor determines the securities, instruments and other contracts relating to investments to be purchased, sold, or entered into by the Fund or delegates such responsibility to the Fund's subadvisor. Northern Trust Investments, Inc. ("NTI") serves as subadvisor. As a subadvisor to the Fund, NTI makes investment decisions and buys and sells securities for the Fund. NTI is paid by the Advisor for the services NTI provides to the Fund.

Pursuant to the Investment Management Agreement with the Advisor, the Fund pays the Advisor an annual fee based on its average daily net assets, computed and accrued daily and payable monthly at the annual rate (exclusive of any applicable waivers/reimbursements) of 0.35%.

For the period from January 1, 2020 through April 30, 2021 (and through April 30, 2020 for Class B shares), the Advisor has contractually agreed to waive all or a portion of its fees and/or reimburse certain operating expenses of the Fund to the extent necessary to maintain the total annual operating expenses (excluding certain expenses such as extraordinary expenses, taxes, brokerage and interest) of each class as follows:

Class A	.39%
Class B	.65%

Effective May 1, 2020 through April 30, 2021, the Advisor has contractually agreed to waive all or a portion of its fees and/or reimburse certain operating expenses of the Fund to the extent necessary to maintain the total annual operating expenses (excluding certain expenses such as extraordinary expenses, taxes, brokerage and interest expense) of Class B shares at 0.67%.

For the six months ended June 30, 2020, fees waived and/or expenses reimbursed for each class are as follows:

Class A	\$ 176,384
Class B	18,997
	\$ 195,381

Administration Fee. Pursuant to the Administrative Services Agreement, DIMA provides most administrative services to the Fund. Prior to March 1, 2020, for all services provided under the Administrative Services Agreement, the Fund paid DIMA an annual fee ("Administration Fee") of 0.10% of the Fund's average daily net assets, computed and accrued daily and payable monthly. Effective March 1, 2020, for all services provided under the Administrative Services Agreement, the Fund pays the Advisor an annual Administration Fee of 0.097% of the Fund's average daily net assets, computed and accrued daily and payable monthly. For the six months ended June 30, 2020, the Administration Fee was \$158,871, of which \$26,705 is unpaid.

Distribution Service Agreement. DWS Distributors, Inc. ("DDI"), an affiliate of the Advisor, is the Fund's distributor. In accordance with the Distribution Plan. DDI receives 12b-1 fees of up to 0.25% of the average daily net assets of Class B shares. For the six months ended June 30, 2020, the Distribution Service Fee was as follows:

Distribution Service Fee	Total Aggregated		Unpaid at June 30, 2020	
Class B	\$	34,924	\$ 5,934	

Service Provider Fees. DWS Service Company ("DSC"), an affiliate of the Advisor, is the transfer agent, dividend-paying agent and shareholder service agent of the Fund. Pursuant to a sub-transfer agency agreement between DSC and DST Systems, Inc. ("DST"), DSC has delegated certain transfer agent, dividend-paying agent and shareholder service agent functions to DST. DSC compensates DST out of the shareholder servicing fee it receives from the Fund. For the six months ended June 30, 2020, the amounts charged to the Fund by DSC were as follows:

Services to Shareholders	Total Aggregated	Unpaid at June 30, 2020	
Class A	\$ 532	\$ 186	
Class B	111	37	
	\$ 643	\$ 223	

Typesetting and Filing Service Fees. Under an agreement with the Fund, DIMA is compensated for providing certain pre-press and regulatory filing services to the Fund. For the six months ended June 30, 2020, the amount charged to the Fund by DIMA included in the Statement of Operations under "Reports to shareholders" aggregated \$9,514, of which \$5,803 is unpaid.

Trustees' Fees and Expenses. The Fund paid retainer fees to each Trustee not affiliated with the Advisor, plus specified amounts to the Board Chairperson and to each committee Chairperson.

Affiliated Cash Management Vehicles. The Fund may invest uninvested cash balances in DWS Central Cash Management Government Fund and DWS ESG Liquidity Fund, affiliated money market funds which are managed by the Advisor. Each affiliated money market fund is managed in accordance with Rule 2a-7 under the 1940 Act, which governs the quality, maturity, diversity and liquidity of instruments in which a money market fund may invest. DWS Central Cash Management Government Fund seeks to maintain a stable net asset value, and DWS ESG Liquidity Fund maintains a floating net asset value. The Fund indirectly bears its proportionate share of the expenses of each affiliated money market fund in which it invests. DWS Central Cash Management Government Fund does not pay the Advisor an investment management fee. To the extent that DWS ESG Liquidity Fund pays an investment management fee to the Advisor, the Advisor will waive an amount of the investment management fee payable to the Advisor by the Fund equal to the amount of the investment management fee payable on the Fund's assets invested in DWS ESG Liquidity Fund.

E. Line of Credit

The Fund and other affiliated funds (the "Participants") share in a \$350 million revolving credit facility provided by a syndication of banks. The Fund may borrow for temporary or emergency purposes, including the meeting of redemption requests that otherwise might require the untimely disposition of securities. The Participants are charged an annual commitment fee, which is allocated based on net assets, among each of the Participants. Interest is calculated at a rate per annum equal to the sum of the Federal Funds Rate plus 1.25 percent plus if the one-month LIBOR exceeds the Federal Funds Rate, the amount of such excess. The Fund may borrow up to a maximum of 33 percent of its net assets under the agreement. The Fund had no outstanding loans at June 30, 2020.

F. Ownership of the Fund

At June 30, 2020, three participating insurance companies were beneficial owners of record of 10% or more of the total outstanding Class A shares of the Fund, each owning 43%, 15%, and 10%, respectively. At June 30, 2020, four participating insurance companies were beneficial owners of record of 10% or more of the outstanding Class B shares of the Fund, each owning 42%, 21%, 16% and 11%, respectively.

G. Other - COVID-19 Pandemic

A novel strain of coronavirus (COVID-19) outbreak was declared a pandemic by the World Health Organization on March 11, 2020. The situation is evolving with various cities and countries around the world responding in different ways to address the pandemic. There are direct and indirect economic effects developing for various industries and individual companies throughout the world. The recent pandemic spread of the novel coronavirus and related geopolitical events could lead to increased financial market volatility, disruption to U.S. and world economies and markets and may have significant adverse effects on the Fund and its investments. A prolonged disruption may result in the Fund and its service providers experiencing operational difficulties in implementing their business continuity plans. Management will continue to monitor the impact COVID-19 has on the Fund and reflect the consequences as appropriate in the Fund's accounting and financial reporting.

I. Other - Deutsche Bank AG Consent Order

On June 17, 2020, Deutsche Bank AG ("DB"), an affiliate of DWS Group, resolved with the Commodity Futures Trading Commission ("CFTC") charges stemming from alleged violations of various swap data reporting requirements and corresponding supervision and other failures. The matter, which was resolved by the issuance of a federal court order ("Consent Order"), involved unintentional conduct that resulted from a system outage that prevented DB from reporting data in accordance with applicable CFTC requirements for a period of five days in April 2016.

The matter giving rise to the Consent Order did not arise out of any investment advisory, fund management activities or distribution activities of DIMA, DWS Distributors, Inc. or their advisory affiliates (the "DWS Service Providers"). DWS Group, of which the DWS Service Providers are wholly-owned subsidiaries, is a separate publicly traded company but continues to be an affiliate of DB due to, among other things, DB's 79.49% ownership interest in DWS Group. Under the provisions of the Investment Company Act of 1940, as a result of the Consent Order, the DWS Service Providers would not be eligible to continue to provide investment advisory and underwriting services to the Fund absent an order from the Securities and Exchange Commission (the "SEC"). DB and the DWS Service Providers are seeking temporary and permanent orders from the SEC to permit the DWS Service Providers to continue to provide investment advisory and underwriting services to the Fund and other registered investment companies notwithstanding the Consent Order. While there can be no assurance that the requested exemptive orders will be granted, the SEC has granted this type of relief in the past. Consistent with their fiduciary and other relationships with the Fund, and in accordance with the desire of the Board of the Fund, the DWS Service Providers continue to provide investment advisory and distribution services to the Fund. Subject to the receipt of the temporary and permanent exemptive orders, the DWS Service Providers have informed the Fund that they do not believe the Consent Order will have any material impact on the Fund or the ability of the Service Providers to provide services for the Fund.

Information About Your Fund's Expenses

(Unaudited)

As an investor of the Fund, you incur two types of costs: ongoing expenses and transaction costs. Ongoing expenses include management fees, distribution and service (12b-1) fees and other Fund expenses. Examples of transaction costs include contract charges, which are not shown in this section. The following tables are intended to help you understand your ongoing expenses (in dollars) of investing in the Fund and to help you compare these expenses with the ongoing expenses of investing in other mutual funds. In the most recent six-month period, the Fund limited these expenses; had it not done so, expenses would have been higher. The example in the table is based on an investment of \$1,000 invested at the beginning of the sixmonth period and held for the entire period (January 1, 2020 to June 30, 2020).

The tables illustrate your Fund's expenses in two ways:

- Actual Fund Return. This helps you estimate the actual dollar amount of ongoing expenses (but not transaction costs) paid on a \$1,000 investment in the Fund using the Fund's actual return during the period. To estimate the expenses you paid over the period, simply divide your account value by \$1,000 (for example, an \$8,600 account value divided by \$1,000 = 8.6), then multiply the result by the number in the "Expenses Paid per \$1,000" line under the share class you hold.
- Hypothetical 5% Fund Return. This helps you to compare your Fund's ongoing expenses (but not transaction costs) with those of other mutual funds using the Fund's actual expense ratio and a hypothetical rate of return of 5% per year before expenses. Examples using a 5% hypothetical Fund return may be found in the shareholder reports of other mutual funds. The hypothetical account values and expenses may not be used to estimate the actual ending account balance or expenses you paid for the period.

Please note that the expenses shown in these tables are meant to highlight your ongoing expenses only and do not reflect any transaction costs. The "Expenses Paid per \$1,000" line of the tables is useful in comparing ongoing expenses only and will not help you determine the relative total expense of owning different funds. If these transaction costs had been included, your costs would have been higher.

Expenses and Value of a \$1,000 Investment for the six months ended June 30, 2020

Actual Fund Return	Class A	Class B
Beginning Account Value 1/1/20	\$ 1,000.00	\$ 1,000.00
Ending Account Value 6/30/20	\$ 867.40	\$ 865.60
Expenses Paid per \$1,000*	\$ 1.81	\$ 3.06
Hypothetical 5% Fund Return	Class A	Class B
Beginning Account Value 1/1/20	\$ 1,000.00	\$ 1,000.00
Ending Account Value 6/30/20	\$ 1,022.92	\$ 1,021.58
Expenses Paid per \$1,000*	\$ 1.96	\$ 3.32

Expenses are equal to the Fund's annualized expense ratio for each share class, multiplied by the average account value over the period, multiplied by 182 (the number of days in the most recent six-month period), then divided by 366.

Annualized Expense Ratios	Class A	Class B
DWS Small Cap Index VIP	.39%	.66%

For more information, please refer to the Fund's prospectus.

These tables do not reflect charges and fees ("contract charges") associated with the separate account that invests in the Fund or any variable life insurance policy or variable annuity contract for which the Fund is an investment option.

For an analysis of the fees associated with an investment in the Fund or similar funds, please refer to the current and hypothetical expense calculators for Variable Insurance Products which can be found at dws.com/calculators.

Liquidity Risk Management

In accordance with Rule 22e-4 (the "Liquidity Rule") under the Investment Company Act of 1940 (the "1940 Act"), your Fund has adopted a liquidity risk management program (the "Program"), and the Board has designated DWS Investment Management Americas, Inc. ("DIMA") as Program administrator. The Program is designed to assess and manage your Fund's liquidity risk (the risk that the Fund would be unable to meet requests to redeem shares of the Fund without significant dilution of remaining investors' interests in the Fund). DIMA has designated a committee (the "Committee") composed of personnel from multiple departments within DIMA and its affiliates that is responsible for the implementation and ongoing administration of the Program, which includes assessing the Fund's liquidity risk under both normal and reasonably foreseeable stressed conditions. Under the Program, every investment held by a Fund is classified on a daily basis into one of four liquidity categories based on estimations of the investment's ability to be sold during designated timeframes in current market conditions without significantly changing the investment's market value.

In February 2020, as required by the Program and the Liquidity Rule, DIMA provided the Board with an annual written report (the "Report") addressing the operation of the Program and assessing the adequacy and effectiveness of its implementation during the period from December 1, 2018 through November 30, 2019 (the "Reporting Period"). During the Reporting Period, your Fund was primarily invested in highly liquid investments (investments that the Fund anticipates can be converted to cash within three business days or less in current market conditions without significantly changing their market value). As a result, your Fund is not required to adopt, and has not adopted, a "Highly Liquid Investment Minimum" as defined in the Liquidity Rule. During the Reporting Period, the Fund did not approach the 15% limit imposed by the Liquidity Rule on holdings in illiquid investments (investments that cannot be sold or disposed of in seven days or less in current market conditions without the sale of the investment significantly changing the market value of the investment). Your Fund did not experience any issues meeting investor redemptions at any time during the Reporting Period. In the Report, DIMA stated that it believes the Program has operated adequately and effectively to manage the Fund's liquidity risk during the Reporting Period. DIMA also reported on a material change made to the Program in May 2019 to address Securities and Exchange Commission guidance relating to extended foreign market holidays.

Proxy Voting

The Fund's policies and procedures for voting proxies for portfolio securities and information about how the Fund voted proxies related to its portfolio securities during the most recent 12-month period ended June 30 are available on our Web site — dws.com/en-us/resources/proxy-voting — or on the SEC's Web site — sec.gov. To obtain a written copy of the Fund's policies and procedures without charge, upon request, call us toll free at (800) 728-3337.

Advisory Agreement Board Considerations and Fee Evaluation

The Board of Trustees (hereinafter referred to as the "Board" or "Trustees") approved the renewal of DWS Small Cap Index VIP's (the "Fund") investment management agreement (the "Agreement") with DWS Investment Management Americas, Inc. ("DIMA") and sub-advisory agreement (the "Sub-Advisory Agreement" and together with the Agreement, the "Agreements") between DIMA and Northern Trust Investments, Inc. ("NTI") in September 2019.

In terms of the process that the Board followed prior to approving the Agreements, shareholders should know that:

- During the entire process, all of the Fund's Trustees were independent of DIMA and its affiliates (the "Independent Trustees").
- The Board met frequently during the past year to discuss fund matters and dedicated a substantial amount of time to contract review matters. Over the course of several months, the Board's Contract Committee reviewed extensive materials received from DIMA, independent third parties and independent counsel. These materials included an analysis of the Fund's performance, fees and expenses, and profitability from a fee consultant retained by the Fund's Independent Trustees (the "Fee Consultant"). Based on its evaluation of the information provided, the Contract Committee presented its findings and recommendations to the Board. The Board then reviewed the Contract Committee's findings and recommendations.
- The Board also received extensive information throughout the year regarding performance of the Fund.
- The Independent Trustees regularly met privately with counsel to discuss contract review and other matters. In addition, the Independent Trustees were advised by the Fee Consultant in the course of their review of the Fund's contractual arrangements and considered a comprehensive report prepared by the Fee Consultant in connection with their deliberations.
- In connection with reviewing the Agreements, the Board also reviewed the terms of the Fund's Rule 12b-1 plan, distribution agreement, administrative services agreement, transfer agency agreement and other material service agreements.

In connection with the contract review process, the Contract Committee and the Board considered the factors discussed below, among others. The Board also considered that DIMA and its predecessors have managed the Fund since its inception, and the Board believes that a long-term relationship with a capable, conscientious advisor is in the best interests of the Fund. The Board considered, generally, that shareholders chose to invest or remain invested in the Fund knowing that DIMA managed the Fund. DIMA is part of DWS Group GmbH & Co. KGaA ("DWS Group"). DWS Group is a global asset management business that offers a wide range of investing expertise and resources, including research capabilities in many countries throughout the world. In 2018, approximately 20% of DWS Group's shares were sold in an initial public offering, with Deutsche Bank AG owning the remaining shares.

As part of the contract review process, the Board carefully considered the fees and expenses of each DWS fund overseen by the Board in light of the fund's performance. In many cases, this led to the negotiation and implementation of expense caps. As part of these negotiations, the Board indicated that it would consider relaxing these caps in future years following sustained improvements in performance, among other considerations.

While shareholders may focus primarily on fund performance and fees, the Fund's Board considers these and many other factors, including the quality and integrity of DIMA's and NTI's personnel and administrative support services provided by DIMA, such as back-office operations, fund valuations, and compliance policies and procedures.

Nature, Quality and Extent of Services. The Board considered the terms of the Agreements, including the scope of advisory services provided under the Agreements. The Board noted that, under the Agreements, DIMA and NTI provide portfolio management services to the Fund and that, pursuant to a separate administrative services agreement, DIMA provides administrative services to the Fund. The Board considered the experience and skills of senior management and investment personnel and the resources made available to such personnel. Throughout the course of the year, the Board also received information regarding DIMA's oversight of fund sub-advisors, including NTI. The Board reviewed the Fund's performance over short-term and long-term periods and compared those returns to various agreed-upon performance measures, including market index(es) and a peer universe compiled using information supplied by

Morningstar Direct ("Morningstar"), an independent fund data service. The Board also noted that it has put into place a process of identifying "Funds in Review" (e.g., funds performing poorly relative to a peer universe), and receives additional reporting from DIMA regarding such funds and, where appropriate, DIMA's plans to address underperformance. The Board believes this process is an effective manner of identifying and addressing underperforming funds. Based on the information provided, the Board noted that, for the one-, three- and five-year periods ended December 31, 2018, the Fund's performance (Class A shares) was in the 2nd quartile of the applicable Morningstar universe (the 1st quartile being the best performers and the 4th quartile being the worst performers).

Fees and Expenses. The Board considered the Fund's investment management fee schedule, sub-advisory fee schedule, operating expenses and total expense ratios, and comparative information provided by Broadridge Financial Solutions, Inc. ("Broadridge") and the Fee Consultant regarding investment management fee rates paid to other investment advisors by similar funds (1st quartile being the most favorable and 4th quartile being the least favorable). With respect to management fees paid to other investment advisors by similar funds, the Board noted that the contractual fee rates paid by the Fund, which include a 0.10% fee paid to DIMA under the Fund's administrative services agreement, were higher than the median (4th quartile) of the applicable Broadridge peer group (based on Broadridge data provided as of December 31, 2018). With respect to the sub-advisory fee paid to NTI, the Board noted that the fee is paid by DIMA out of its fee and not directly by the Fund. The Board noted that the Fund's Class A shares total (net) operating expenses were expected to be higher than the median (3rd quartile) of the applicable Broadridge expense universe (based on Broadridge data provided as of December 31, 2018, and analyzing Broadridge expense universe Class A (net) expenses less any applicable 12b-1 fees) ("Broadridge Universe Expenses"). The Board also reviewed data comparing each other operational share class's total (net) operating expenses to the applicable Broadridge Universe Expenses. The Board noted that the expense limitations agreed to by DIMA were expected to help the Fund's total (net) operating expenses remain competitive. The Board considered the Fund's management fee rate as compared to fees charged by DIMA to comparable DWS U.S. registered funds ("DWS Funds") and considered differences between the Fund and the comparable DWS Funds. The information requested by the Board as part of its review of fees and expenses also included information about institutional accounts (including any sub-advised funds and accounts) and funds offered primarily to European investors ("DWS Europe Funds") managed by DWS Group. The Board noted that DIMA indicated that DWS Group does not manage any institutional accounts or DWS Europe Funds comparable to the Fund.

On the basis of the information provided, the Board concluded that management fees were reasonable and appropriate in light of the nature, quality and extent of services provided by DIMA and NTI.

Profitability. The Board reviewed detailed information regarding revenues received by DIMA under the Agreement. The Board considered the estimated costs to DIMA, and pre-tax profits realized by DIMA, from advising the DWS Funds, as well as estimates of the pre-tax profits attributable to managing the Fund in particular. The Board also received information regarding the estimated enterprise-wide profitability of DIMA and its affiliates with respect to all fund services in totality and by fund. The Board and the Fee Consultant reviewed DIMA's methodology in allocating its costs to the management of the Fund. Based on the information provided, the Board concluded that the pre-tax profits realized by DIMA in connection with the management of the Fund were not unreasonable. The Board also reviewed certain publicly available information regarding the profitability of certain similar investment management firms. The Board noted that, while information regarding the profitability of such firms is limited (and in some cases is not necessarily prepared on a comparable basis), DIMA and its affiliates' overall profitability with respect to the DWS Funds (after taking into account distribution and other services provided to the funds by DIMA and its affiliates) was lower than the overall profitability levels of most comparable firms for which such data was available. The Board did not consider the profitability of NTI with respect to the Fund. The Board noted that DIMA pays NTI's fee out of its management fee, and its understanding that the Fund's sub-advisory fee schedule was the product of an arm's length negotiation with DIMA.

Economies of Scale. The Board considered whether there are economies of scale with respect to the management of the Fund and whether the Fund benefits from any economies of scale. In this regard, the Board observed that while the Fund's current investment management fee schedule does not include breakpoints, the Fund's fee schedule represents an appropriate sharing between the Fund and DIMA of such economies of scale as may exist in the management of the Fund at current asset levels.

Other Benefits to DIMA and NTI and Their Affiliates. The Board also considered the character and amount of other incidental or "fall-out" benefits received by DIMA and NTI and their affiliates, including any fees

received by DIMA for administrative services provided to the Fund, any fees received by an affiliate of DIMA for transfer agency services provided to the Fund and any fees received by an affiliate of DIMA for distribution services. The Board also considered benefits to DIMA and NTI related to brokerage and softdollar allocations, including allocating brokerage to pay for research generated by parties other than the executing broker dealers, which pertain primarily to funds investing in equity securities. In addition, the Board considered the incidental public relations benefits to DIMA and NTI related to DWS Funds advertising and cross-selling opportunities among DIMA products and services. The Board considered these benefits in reaching its conclusion that the Fund's management fees were reasonable.

Compliance. The Board considered the significant attention and resources dedicated by DIMA to its compliance processes in recent years. The Board noted in particular (i) the experience, seniority and time commitment of the individuals serving as DIMA's and the Fund's chief compliance officers and (ii) the substantial commitment of resources by DIMA and its affiliates to compliance matters, including the retention of compliance personnel. The Board also considered the attention and resources dedicated by DIMA to the oversight of the investment sub-advisor's compliance program and compliance with the applicable fund policies and procedures.

Based on all of the information considered and the conclusions reached, the Board determined that the continuation of the Agreements is in the best interests of the Fund. In making this determination, the Board did not give particular weight to any single factor identified above. The Board considered these factors over the course of numerous meetings, certain of which were in executive session with only the Independent Trustees and counsel present. It is possible that individual Independent Trustees may have weighed these factors differently in reaching their individual decisions to approve the continuation of the Agreements.

Notes

