PRIMECAP Odyssey Growth Fund
Portfolio Holdings
September 30, 2016 (Unaudited)

Common Stock

Sectors	CUSIP	Description	Shares		Market Value
Health Care - 33.1%					
	002824100	ABBOTT LABORATORIES	852,018	$	36,031,841
	003654100	ABIOMED, INC.	1,893,800		243,504,804
	004397105	ACCURAY, INC.	2,952,200		18,805,514
	00846U101	AGILENT TECHNOLOGIES, INC.	311,300		14,659,117
	G01767105	ALKERMES PLC	535,000		25,161,050
	031162100	AMGEN, INC.	1,365,000		227,695,650
	046353108	ASTRAZENECA PLC - ADR	843,300		27,710,838
	09062X103	BIOGEN, INC.	539,000		168,723,170
	09061G101	BIOMARIN PHARMACEUTICAL, INC.	382,700		35,407,404
	101137107	BOSTON SCIENTIFIC CORP.	1,053,800		25,080,440
	15670R107	CEPHEID, INC.	1,061,100		55,909,359
	532457108	ELI LILLY & CO.	3,267,400		262,241,524
	29428V104	EPIZYME, INC.	2,395,543		23,572,143
	452327109	ILLUMINA, INC.	460,400		83,636,264
	45253H101	IMMUNOGEN, INC.	4,931,500		13,216,420
	45784P101	INSULET CORP.	2,717,421		111,251,216
	478160104	JOHNSON & JOHNSON	307,337		36,305,720
	G5960L103	MEDTRONIC PLC	494,150		42,694,560
	58933Y105	MERCK & CO., INC.	700,000		43,687,000
	60877T100	MOMENTA PHARMACEUTICALS, INC.	578,000		6,756,820
	640268108	NEKTAR THERAPEUTICS	5,887,356		101,144,776
	66987V109	NOVARTIS AG - ADR	516,350		40,770,996
	670704105	NUVASIVE, INC.	200,000		13,332,000
	68554V108	ORASURE TECHNOLOGIES, INC.	200,000		1,594,000
	714046109	PERKINELMER, INC.	361,000		20,255,710
	N72482107	QIAGEN N.V.	3,177,614		87,193,728
	7110388	ROCHE HOLDING AG - CHF	586,500		145,493,052
	812578102	SEATTLE GENETICS, INC.	5,698,862		307,795,537
	883556102	THERMO FISHER SCIENTIFIC, INC.	316,000		50,262,960
	941848103	WATERS CORP.	49,200		7,797,708
	98956P102	ZIMMER BIOMET HOLDINGS, INC.	12,500		1,625,250
					2,279,316,571
Information Technology - 31.4%					
	00724F101	ADOBE SYSTEMS, INC.	1,328,850		144,233,379
	01609W102	ALIBABA GROUP HOLDING LTD. - ADR	1,478,000		156,357,620
	02079K305	ALPHABET, INC. - CLASS A	116,067		93,324,832
	02079K107	ALPHABET, INC. - CLASS C	115,530		89,800,314
	032654105	ANALOG DEVICES, INC.	137,000		8,829,650
	038222105	APPLIED MATERIALS, INC.	51,700		1,558,755
	N07059210	ASML HOLDING N.V.	250,000		27,395,000
	09228F103	BLACKBERRY LTD.	15,046,850		120,073,863
	17275R102	CISCO SYSTEMS, INC.	1,515,900		48,084,348
	219350105	CORNING, INC.	350,000		8,277,500
	225447101	CREE, INC.	1,320,100		33,952,972
	24703L103	DELL TECHNOLOGIES, INC. - VMWARE, INC. - CLASS V	239,719		11,458,568
	278642103	EBAY, INC.	154,300		5,076,470
	285512109	ELECTRONIC ARTS, INC.	235,000		20,069,000
	28849P100	ELLIE MAE, INC.	664,000		69,919,200
	315616102	F5 NETWORKS, INC.	16,000		1,994,240
	Y2573F102	FLEXTRONICS INTERNATIONAL LTD.	5,058,700		68,899,494
	346375108	FORMFACTOR, INC.	624,718		6,778,190
	42824C109	HEWLETT PACKARD ENTERPRISE CO.	2,950,700		67,128,425
	40434L105	HP, INC.	3,314,700		51,477,291
	458140100	INTEL CORP.	1,621,200		61,200,300
	461202103	INTUIT, INC.	105,000		11,551,050
	466313103	JABIL CIRCUIT, INC.	725,000		15,819,500
	49338L103	KEYSIGHT TECHNOLOGIES, INC.	993,150		31,472,924
	482480100	KLA-TENCOR CORP.	742,000		51,724,820
	294821608	L.M. ERICSSON TELEPHONE CO. - ADR	7,654,600		55,189,666
	595112103	MICRON TECHNOLOGY, INC.	6,280,000		111,658,400
	594918104	MICROSOFT CORP.	2,358,100		135,826,560
	64110D104	NETAPP, INC.	3,567,354		127,782,620
	64126X201	NEUSTAR, INC. - CLASS A	1,653,100		43,955,929
	67020Y100	NUANCE COMMUNICATIONS, INC.	1,620,000		23,490,000
	67066G104	NVIDIA CORP.	683,000		46,799,160
	747525103	QUALCOMM, INC.	1,034,200		70,842,700
	750917106	RAMBUS, INC.	160,000		2,000,000
	M85548101	STRATASYS LTD.	2,345,300		56,498,277
	882508104	TEXAS INSTRUMENTS, INC.	1,751,395		122,912,901
	896239100	TRIMBLE NAVIGATION LTD.	888,700		25,381,272
	92826C839	VISA, INC. - CLASS A	810,000		66,987,000
	928563402	VMWARE, INC. - CLASS A	415,000		30,440,250
	958102105	WESTERN DIGITAL CORP.	120,380		7,038,619
	984332106	YAHOO!, INC.	585,000		25,213,500
					2,158,474,559

Consumer Discretionary - 11.9%				
	04351G101	ASCENA RETAIL GROUP, INC.	2,145,000	11,990,550
	075896100	BED BATH & BEYOND, INC.	154,200	6,647,562
	143130102	CARMAX, INC.	2,303,178	122,874,546
	143658300	CARNIVAL CORP.	1,985,746	96,944,120
	375916103	GILDAN ACTIVEWEAR, INC.	558,300	15,604,485
	501797104	L BRANDS, INC.	1,510,598	106,905,021
	517834107	LAS VEGAS SANDS CORP.	557,099	32,055,477
	552953101	MGM RESORTS INTERNATIONAL	250,000	6,507,500
	G66721104	NORWEGIAN CRUISE LINE HOLDINGS LTD.	1,850,000	69,745,000
	778296103	ROSS STORES, INC.	136,600	8,783,380
	V7780T103	ROYAL CARIBBEAN CRUISES LTD.	1,656,371	124,145,006
	82568P304	SHUTTERFLY, INC.	1,658,127	74,018,789
	835699307	SONY CORP. - ADR	3,916,000	130,050,360
	872540109	TJX COS., INC.	126,000	9,422,280
				815,694,076
Industrials - 11.0%				
	00766T100	AECOM	1,325,000	39,392,250
	4012250	AIRBUS GROUP SE - EUR	737,700	44,617,180
	02376R102	AMERICAN AIRLINES GROUP, INC.	5,180,201	189,647,159
	053774105	AVIS BUDGET GROUP, INC.	430,100	14,713,721
	149123101	CATERPILLAR, INC.	55,700	4,944,489
	17273K109	CIRCOR INTERNATIONAL, INC.	145,000	8,636,200
	231561101	CURTISS-WRIGHT CORP.	274,000	24,964,140
	247361702	DELTA AIR LINES, INC.	1,460,000	57,465,600
	31428X106	FEDEX CORP.	200,000	34,936,000
	45167R104	IDEX CORP.	177,000	16,561,890
	469814107	JACOBS ENGINEERING GROUP, INC.	1,150,794	59,519,066
	477143101	JETBLUE AIRWAYS CORP.	1,377,550	23,748,962
	767744105	RITCHIE BROS. AUCTIONEERS, INC.	489,000	17,149,230
	844741108	SOUTHWEST AIRLINES CO.	2,997,700	116,580,553
	910047109	UNITED CONTINENTAL HOLDINGS, INC.	1,838,900	96,487,083
	911312106	UNITED PARCEL SERVICE, INC. - CLASS B	86,000	9,404,960
				758,768,483
Financials - 7.0%				
	808513105	CHARLES SCHWAB CORP. (THE)	3,543,223	111,859,550
	12572Q105	CME GROUP, INC.	106,000	11,079,120
	254709108	DISCOVER FINANCIAL SERVICES	809,000	45,748,950
	269246401	E*TRADE FINANCIAL CORP.	4,891,800	142,449,216
	46625H100	JPMORGAN CHASE & CO.	1,490,000	99,219,100
	571748102	MARSH & MCLENNAN COS., INC.	390,350	26,251,037
	743315103	PROGRESSIVE CORP. (THE)	557,000	17,545,500
	949746101	WELLS FARGO & CO.	635,000	28,117,800
				482,270,273
Materials - 0.7%				
	61166W101	MONSANTO CO.	394,500	40,317,900
	74005P104	PRAXAIR, INC.	100,000	12,083,000
				52,400,900
Energy - 0.5%				
	26875P101	EOG RESOURCES, INC.	15,000	1,450,650
	N33462107	FRANK'S INTERNATIONAL N.V.	70,000	910,000
	637071101	NATIONAL OILWELL VARCO, INC.	70,000	2,571,800
	75281A109	RANGE RESOURCES CORP.	70,000	2,712,500
	806857108	SCHLUMBERGER LTD.	72,900	5,732,856
	845467109	SOUTHWESTERN ENERGY CO.	800,000	11,072,000
	H8817H100	TRANSOCEAN LTD.	872,000	9,295,520
				33,745,326
Consumer Staples - 0.3%				
	09531U102	BLUE BUFFALO PET PRODUCTS, INC.	271,300	6,446,088
	126650100	CVS HEALTH CORP.	151,000	13,437,490
				19,883,578
Total Common Stocks - 95.9%				$ 6,600,553,766
Rights				
Health Care - 0.0%	267CVR991	DYAX CORP. CONTINGENT VALUE RIGHTS	30,000	33,300
Total Rights - 0.0%				33,300
Short Term Investments - 4.1%				
	261941207	DREYFUS TREASURY SECURITIES CASH MANAGEMENT FUND	279,813,271	279,813,271
Total Portfolio - 100%				$ 6,880,400,337

ADR	American Depository Receipt
CHF	Swiss Francs
EUR	Euros

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