

ESSEX INVESTMENT MANAGEMENT CO LLC

FORM 13F-HR (Form 13F Holdings Report)

Filed 02/07/25 for the Period Ending 12/31/24

Address	125 HIGH STREET SUITE 1803 BOSTON, MA, 02110
Telephone	6174824870
CIK	0000201772
Fiscal Year	11/30

The Securities and Exchange Commission has not necessarily reviewed the information in this filing and has not determined if it is accurate and complete.

The reader should not assume that the information is accurate and complete.

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549
FORM 13F

OMB APPROVAL

OMB Number: 3235-0006
Estimated average burden
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FORM 13F COVER PAGE

Report for the Calendar Year or Quarter Ended: 12-31-2024

Check here if Amendment: Amendment Number: _____

This Amendment (Check only one.): is a restatement.
 adds new holdings entries.

Institutional Investment Manager Filing this Report:

Name: ESSEX INVESTMENT MANAGEMENT CO LLC
Address: 125 HIGH STREET
SUITE 1803
BOSTON MA 02110

Form 13F File Number: 028-00878

CRD Number (if applicable): 000109962

SEC File Number (if applicable): 801-55496

The institutional investment manager filing this report and the person by whom it is signed hereby represent that the person signing the report is authorized to submit it, that all information contained herein is true, correct and complete, and that it is understood that all required items, statements, schedules, lists, and tables, are considered integral parts of this form.

Person Signing this Report on Behalf of Reporting Manager:

Name: David A Rozenson
Title: Attorney-in-Fact
Phone: 6177331054

Signature, Place, and Date of Signing:

David A Rozenson Newton, MASSACHUSETTS 02-07-2025
[Signature] [City, State] [Date]

Do you wish to provide information pursuant to Special Instruction 5?

Yes No

Report Type (Check only one.):

13F HOLDINGS REPORT. (Check here if all holdings of this reporting manager are reported in this report.)

13F NOTICE. (Check here if no holdings reported are in this report, and all holdings are reported by other reporting manager(s).)

13F COMBINATION REPORT. (Check here if a portion of the holdings for this reporting manager are reported in this report and a portion are reported by other reporting manager(s).)

Form 13F Summary Page

Report Summary:

Number of Other Included Managers:	<u>0</u>
Form 13F Information table Entry Total:	<u>307</u>
Form 13F Information table Value Total:	<u>556,146,539</u> (round to nearest dollar)

List of Other Included Managers:

Provide a numbered list of the name(s) and Form 13F number(s) of all institutional investment managers with respect to which this report is filed, other than the manager filing this report.

NONE

FORM 13F INFORMATION TABLE

COLUMN 1 NAME OF ISSUER	COLUMN 2 TITLE OF CLASS	COLUMN 3 CUSIP	COLUMN 3 FIGI	COLUMN 4 VALUE (round to nearest dollar)	COLUMN 4 SHRS OR PRN AMT	COLUMN 5 SH/ PRN	COLUMN 5 PUT/ CALL	COLUMN 6 INVESTMENT DISCRETION	COLUMN 7 OTHER MANAGER	COLUMN 8 VOTING AUTHORITY		
										SOLE	SHARED	NONE
ABBOTT LABS	COM	002824100	-	185,161	1,637	SH	-	SOLE	-	1,637	0	0
ACI WORLDWIDE INC	COM	004498101	-	59,904	1,154	SH	-	SOLE	-	1,154	0	0
ACM RESH INC	COM	00108J109	-	199,773	13,230	SH	-	SOLE	-	13,230	0	0
ACUITY BRANDS INC	COM	00508Y102	-	38,269	131	SH	-	SOLE	-	131	0	0
ACV AUCTIONS INC	COM	00091G104	-	2,701,404	125,065	SH	-	SOLE	-	59,593	0	65,472
ADAPTIVE BIOTECHNOLOGIES CORP	COM	00650F109	-	3,751,899	625,838	SH	-	SOLE	-	318,061	0	307,777
ADVANCED DRAIN SYS INC DEL	COM	00790R104	-	1,466,270	12,684	SH	-	SOLE	-	12,312	0	372
AGNICO EAGLE MINES LTD	COM	008474108	-	3,553,974	45,441	SH	-	SOLE	-	44,940	0	501
AIR PRODS & CHEMS INC	COM	009158106	-	1,194,675	4,119	SH	-	SOLE	-	4,119	0	0
AIRGAIN INC	COM	00938A104	-	145,450	20,602	SH	-	SOLE	-	20,602	0	0
ALBEMARLE CORP	COM	012653101	-	1,362,302	15,826	SH	-	SOLE	-	15,539	0	287
ALKAMI TECHNOLOGY INC	COM	01644J108	-	33,526	914	SH	-	SOLE	-	914	0	0
ALPHA PRO TECH LTD	COM	020772109	-	184,055	34,793	SH	-	SOLE	-	34,793	0	0
ALPHABET INC	COM	02079K107	-	60,941	320	SH	-	SOLE	-	320	0	0
ALTAIR ENGR INC	COM	021369103	-	34,042	312	SH	-	SOLE	-	312	0	0
AMAZON COM INC	COM	023135106	-	7,347,371	33,490	SH	-	SOLE	-	32,650	0	840
AMBARELLA INC	COM	G037AX101	-	6,584,570	90,522	SH	-	SOLE	-	64,183	0	26,339
AMERICAN EXPRESS CO	COM	025816109	-	1,211,497	4,082	SH	-	SOLE	-	4,082	0	0
AMERICAN SUPERCONDUCTOR CORP	COM	030111207	-	10,587,846	429,876	SH	-	SOLE	-	333,193	0	96,683
AMERICAN WTR WKS CO INC NEW	COM	030420103	-	36,227	291	SH	-	SOLE	-	291	0	0
AMICUS THERAPEUTICS INC	COM	03152W109	-	2,178,036	231,214	SH	-	SOLE	-	110,145	0	121,069
AMPHENOL CORP NEW	COM	03209S101	-	11,668	168	SH	-	SOLE	-	168	0	0
APPLE INC	COM	037833100	-	10,427,489	41,640	SH	-	SOLE	-	40,737	0	903
APPLIED INDL TECHNOLOGIES INC	COM	03820C105	-	120,932	505	SH	-	SOLE	-	505	0	0
AQUESTIVE THERAPEUTICS INC	COM	03843E104	-	2,218,984	623,310	SH	-	SOLE	-	314,238	0	309,072
ARCHER DANIELS MIDLAND CO	COM	039483102	-	13,236	262	SH	-	SOLE	-	262	0	0
ARCOSA INC	COM	039653100	-	32,021	331	SH	-	SOLE	-	331	0	0
ARCUTIS BIOTHERAPEUTICS INC	COM	03969K108	-	1,989,524	142,823	SH	-	SOLE	-	68,085	0	74,738
ARGAN INC	COM	04010E109	-	5,000,590	36,490	SH	-	SOLE	-	18,323	0	18,167
ARLO TECHNOLOGIES INC	COM	04206A101	-	2,120,483	189,498	SH	-	SOLE	-	90,253	0	99,245
ARTERIS INC	COM	04302A104	-	2,916,796	286,241	SH	-	SOLE	-	143,714	0	142,527
ASCENT INDUSTRIES CO	COM	871565107	-	136,195	12,182	SH	-	SOLE	-	12,182	0	0
ASGN INC	COM	00191U102	-	241,686	2,900	SH	-	SOLE	-	2,900	0	0
ASPEN AEROGELS INC	COM	04523Y105	-	2,949,127	248,243	SH	-	SOLE	-	177,257	0	70,986
ATERIAN INC	COM	02156U200	-	68,124	28,385	SH	-	SOLE	-	28,385	0	0
AUTOMATIC DATA PROCESSING INC	COM	05301S103	-	208,424	712	SH	-	SOLE	-	712	0	0
AVEPOINT INC	COM	053604104	-	9,010,250	545,745	SH	-	SOLE	-	396,305	0	149,440
AVIENT CORPORATION	COM	05368V106	-	872,453	21,352	SH	-	SOLE	-	21,291	0	61
AVITA MEDICAL INC	COM	05380C102	-	3,342,989	261,171	SH	-	SOLE	-	130,957	0	130,214
AWARE INC MASS	COM	05453N100	-	75,972	38,960	SH	-	SOLE	-	38,960	0	0
AXALTA COATING SYS LTD	COM	G0750C108	-	38,429	1,123	SH	-	SOLE	-	1,123	0	0
AXCELIS TECHNOLOGIES INC	COM	054540208	-	260,266	3,725	SH	-	SOLE	-	3,725	0	0
BADGER METER INC	COM	05652S108	-	3,367,829	15,877	SH	-	SOLE	-	15,435	0	442
BARRICK GOLD CORP	COM	067901108	-	438,139	28,267	SH	-	SOLE	-	28,129	0	138
BERKSHIRE HATHAWAY INC DEL	COM	084670702	-	34,449	76	SH	-	SOLE	-	76	0	0
BGC GROUP INC	COM	088929104	-	3,003,689	331,533	SH	-	SOLE	-	158,037	0	173,496
BLEND LABS INC	COM	09352U108	-	1,765,051	419,252	SH	-	SOLE	-	212,593	0	206,659
BLUEPRINT MEDICINES CORP	COM	09627Y109	-	3,989,094	45,736	SH	-	SOLE	-	44,620	0	1,116
BM TECHNOLOGIES INC	COM	05591L107	-	185,937	38,024	SH	-	SOLE	-	38,024	0	0
BRISTOL-MYERS SQUIBB CO	COM	110122108	-	63,347	1,120	SH	-	SOLE	-	1,120	0	0
BROADWIND INC	COM	11161T207	-	114,270	60,782	SH	-	SOLE	-	60,782	0	0
BUILDERS FIRSTSOURCE INC	COM	12008R107	-	1,934,558	13,535	SH	-	SOLE	-	6,462	0	7,073
BWX TECHNOLOGIES INC	COM	05605H100	-	2,619,002	23,512	SH	-	SOLE	-	22,980	0	532

CAESARSTONE LTD	COM	M20598104	-	1,415,756	333,119	SH	-	SOLE	-	166,817	0	166,302
CAMTEK LTD	COM	M20791105	-	344,484	4,265	SH	-	SOLE	-	4,265	0	0
CECO ENVIRONMENTAL CORP	COM	125141101	-	4,687,041	155,046	SH	-	SOLE	-	77,869	0	77,177
CERAGON NETWORKS LTD	COM	M22013102	-	5,149,137	1,102,599	SH	-	SOLE	-	554,559	0	548,040
CHART INDS INC	COM	16115Q308	-	1,876,721	9,834	SH	-	SOLE	-	9,555	0	279
CHENIERE ENERGY INC	COM	16411R208	-	2,009,464	9,352	SH	-	SOLE	-	9,088	0	264
CINCINNATI FINL CORP	COM	172062101	-	78,891	549	SH	-	SOLE	-	549	0	0
CLEAN HARBORS INC	COM	184496107	-	44,417	193	SH	-	SOLE	-	193	0	0
CLEARPOINT NEURO INC	COM	18507C103	-	6,287,682	408,822	SH	-	SOLE	-	205,844	0	202,978
CLEARWATER ANALYTICS HLDGS INC	COM	185123106	-	32,088	1,166	SH	-	SOLE	-	1,166	0	0
COCA COLA CO	COM	191216100	-	523,420	8,407	SH	-	SOLE	-	8,407	0	0
CODA OCTOPUS GROUP INC	COM	19188U206	-	114,341	14,603	SH	-	SOLE	-	14,603	0	0
COGNEX CORP	COM	192422103	-	1,856,508	51,771	SH	-	SOLE	-	50,889	0	882
COGNYTE SOFTWARE LTD	COM	M25133105	-	2,988,748	345,520	SH	-	SOLE	-	174,098	0	171,422
COLGATE PALMOLIVE CO	COM	194162103	-	1,033,829	11,372	SH	-	SOLE	-	11,372	0	0
CONCENTRA GROUP HOLDINGS PAREN	COM	20603L102	-	2,147,831	108,586	SH	-	SOLE	-	107,287	0	1,299
CONSTELLATION BRANDS INC	COM	21036P108	-	451,282	2,042	SH	-	SOLE	-	2,042	0	0
COSTCO WHSL CORP NEW	COM	22160K105	-	164,929	180	SH	-	SOLE	-	180	0	0
COVENANT LOGISTICS GROUP INC	COM	22284P105	-	2,871,260	52,674	SH	-	SOLE	-	26,827	0	25,847
CREATIVE REALITIES INC	COM	22530J309	-	95,354	38,920	SH	-	SOLE	-	38,920	0	0
CREXENDO INC	COM	226552107	-	3,831,869	732,671	SH	-	SOLE	-	369,953	0	362,718
CULP INC	COM	230215105	-	80,278	13,676	SH	-	SOLE	-	13,676	0	0
DANA INC	COM	235825205	-	19,247	1,665	SH	-	SOLE	-	1,665	0	0
DATA I O CORP	COM	237690102	-	108,205	39,063	SH	-	SOLE	-	39,063	0	0
DAY ONE BIOPHARMACEUTICALS INC	COM	23954D109	-	2,629,963	207,574	SH	-	SOLE	-	99,067	0	108,507
DEXCOM INC	COM	252131107	-	24,731	318	SH	-	SOLE	-	318	0	0
DISNEY WALT CO	COM	254687106	-	3,475,345	31,211	SH	-	SOLE	-	30,821	0	390
DOCEBO INC	COM	25609L105	-	3,163,403	70,659	SH	-	SOLE	-	33,741	0	36,918
DOLLAR TREE INC	COM	256746108	-	632,793	8,444	SH	-	SOLE	-	8,399	0	45
DOW INC	COM	260557103	-	81,986	2,043	SH	-	SOLE	-	2,043	0	0
DT MIDSTREAM INC	COM	23345M107	-	36,491	367	SH	-	SOLE	-	367	0	0
DTE ENERGY CO	COM	233331107	-	88,751	735	SH	-	SOLE	-	735	0	0
DUKE ENERGY CORP NEW	COM	26441C204	-	229,271	2,128	SH	-	SOLE	-	2,128	0	0
DUOS TECHNOLOGIES GROUP INC	COM	266042407	-	115,797	19,364	SH	-	SOLE	-	19,364	0	0
DUPONT DE NEMOURS INC	COM	26614N102	-	54,519	715	SH	-	SOLE	-	715	0	0
EATON CORP PLC	COM	G29183103	-	29,205	88	SH	-	SOLE	-	67	0	21
ECOLAB INC	COM	278865100	-	19,449	83	SH	-	SOLE	-	83	0	0
ELTEK LTD	COM	M40184208	-	98,578	8,913	SH	-	SOLE	-	8,913	0	0
ENERGY RECOVERY INC	COM	29270J100	-	3,224,166	219,331	SH	-	SOLE	-	214,723	0	4,608
ENERGY SVCS ACQUISITION CORP	COM	29271Q103	-	225,040	17,832	SH	-	SOLE	-	17,832	0	0
ENOVIX CORPORATION	COM	293594107	-	872,850	80,299	SH	-	SOLE	-	78,057	0	2,242
ENTERPRISE PRODS PARTNERS L P	COM	293792107	-	39,702	1,266	SH	-	SOLE	-	1,266	0	0
ENVIRI CORP	COM	415864107	-	2,663,238	345,875	SH	-	SOLE	-	173,965	0	171,910
ETON PHARMACEUTICALS INC	COM	29772L108	-	325,567	24,442	SH	-	SOLE	-	24,442	0	0
EURONET WORLDWIDE INC	COM	298736109	-	23,139	225	SH	-	SOLE	-	225	0	0
EVERCORE INC	COM	29977A105	-	2,971,754	10,721	SH	-	SOLE	-	5,112	0	5,609
EVERQUOTE INC	COM	30041R108	-	3,614,552	180,818	SH	-	SOLE	-	127,300	0	53,518
EVERUS CONSTR GROUP	COM	300426103	-	1,495,878	22,751	SH	-	SOLE	-	10,839	0	11,912
EVOLUS INC	COM	30052C107	-	2,014,833	182,503	SH	-	SOLE	-	92,646	0	89,857
EXELIXIS INC	COM	30161Q104	-	40,293	1,210	SH	-	SOLE	-	1,210	0	0
EXPRO GROUP HOLDINGS NV	COM	N3144W105	-	1,845,111	147,964	SH	-	SOLE	-	70,544	0	77,420
EXTREME NETWORKS	COM	30226D106	-	2,599,069	155,261	SH	-	SOLE	-	74,122	0	81,139
EXXON MOBIL CORP	COM	30231G102	-	3,040,789	28,268	SH	-	SOLE	-	27,279	0	989
EYEPOINT PHARMACEUTICALS INC	COM	30233G209	-	934,357	125,417	SH	-	SOLE	-	62,993	0	62,424
FEDEX CORP	COM	31428X106	-	12,660	45	SH	-	SOLE	-	45	0	0
FIRST SOLAR INC	COM	336433107	-	1,255,181	7,122	SH	-	SOLE	-	6,914	0	208
FIVE BELOW INC	COM	33829M101	-	14,380	137	SH	-	SOLE	-	137	0	0
FLOWSERVE CORP	COM	34354P105	-	34,454	599	SH	-	SOLE	-	599	0	0
FORWARD AIR CORP	COM	349853101	-	2,487,346	77,127	SH	-	SOLE	-	36,770	0	40,357

FRANCO NEV CORP	COM	351858105	-	406,979	3,461	SH	-	SOLE	-	3,461	0	0
FREEMPORT-MCMORAN INC	COM	35671D857	-	47,143	1,238	SH	-	SOLE	-	1,238	0	0
FRONTDOOR INC	COM	35905A109	-	3,235,043	59,174	SH	-	SOLE	-	28,206	0	30,968
FUEL TECH INC	COM	359523107	-	116,692	111,135	SH	-	SOLE	-	111,135	0	0
GALLAGHER ARTHUR J & CO	COM	363576109	-	1,101,338	3,880	SH	-	SOLE	-	3,880	0	0
GATES INDL CORP PLC	COM	G39108108	-	41,058	1,996	SH	-	SOLE	-	1,996	0	0
GE AEROSPACE	COM	369604301	-	179,299	1,075	SH	-	SOLE	-	850	0	225
GE VERNOVA INC	COM	36828A101	-	3,814,601	11,597	SH	-	SOLE	-	11,220	0	377
GENASYS INC	COM	36872P103	-	147,797	56,845	SH	-	SOLE	-	56,845	0	0
GENERAC HLDGS INC	COM	368736104	-	5,381,630	34,709	SH	-	SOLE	-	33,880	0	829
GENPACT LIMITED	COM	G3922B107	-	35,348	823	SH	-	SOLE	-	823	0	0
GEOSPACE TECHNOLOGIES CORP	COM	37364X109	-	195,360	19,497	SH	-	SOLE	-	19,497	0	0
GLAUKOS CORP	COM	377322102	-	91,613	611	SH	-	SOLE	-	611	0	0
GLOBUS MED INC	COM	379577208	-	5,288,891	63,945	SH	-	SOLE	-	63,007	0	938
GOLDMAN SACHS GROUP INC	COM	38141G104	-	5,618,084	9,811	SH	-	SOLE	-	9,527	0	284
GRAHAM CORP	COM	384556106	-	6,257,641	140,716	SH	-	SOLE	-	70,611	0	70,105
GRAND CANYON ED INC	COM	38526M106	-	376,740	2,300	SH	-	SOLE	-	2,300	0	0
GREAT LAKES DREDGE & DOCK CORP	COM	390607109	-	3,421,435	303,050	SH	-	SOLE	-	154,061	0	148,989
GRID DYNAMICS HLDGS INC	COM	39813G109	-	3,106,394	139,676	SH	-	SOLE	-	66,606	0	73,070
GRIFFON CORP	COM	398433102	-	3,302,367	46,336	SH	-	SOLE	-	22,074	0	24,262
GUIDEWIRE SOFTWARE INC	COM	40171V100	-	7,331,038	43,487	SH	-	SOLE	-	42,502	0	985
HA SUSTAINABLE INFRA CAP INC	COM	41068X100	-	1,514,285	56,440	SH	-	SOLE	-	54,856	0	1,584
HAEMONETICS CORP MASS	COM	405024100	-	22,409	287	SH	-	SOLE	-	287	0	0
HCI GROUP INC	COM	40416E103	-	9,594,498	82,335	SH	-	SOLE	-	63,709	0	18,626
HEALTH CATALYST INC	COM	42225T107	-	2,086,442	295,112	SH	-	SOLE	-	148,453	0	146,659
HELMERICH & PAYNE INC	COM	423452101	-	23,471	733	SH	-	SOLE	-	733	0	0
HUBBELL INC	COM	443510607	-	1,823,428	4,353	SH	-	SOLE	-	4,229	0	124
HUDSON GLOBAL INC	COM	443787205	-	80,545	6,172	SH	-	SOLE	-	6,172	0	0
IAC INC	COM	44891N208	-	20,966	486	SH	-	SOLE	-	486	0	0
IDENTIV INC	COM	45170X205	-	1,479,083	404,121	SH	-	SOLE	-	203,072	0	201,049
IDEX CORP	COM	45167R104	-	5,002,659	23,903	SH	-	SOLE	-	23,275	0	628
INSMED INC	COM	457669307	-	4,648,463	67,330	SH	-	SOLE	-	32,095	0	35,235
INSPIREMD INC	COM	45779A846	-	190,846	72,565	SH	-	SOLE	-	72,565	0	0
INTEGRAL AD SCIENCE HLDNG CORP	COM	45828L108	-	1,349,902	129,301	SH	-	SOLE	-	61,634	0	67,667
INTERFACE INC	COM	458665304	-	3,498,511	143,676	SH	-	SOLE	-	72,718	0	70,958
INTEST CORP	COM	461147100	-	195,715	22,784	SH	-	SOLE	-	22,784	0	0
INTRA-CELLULAR THERAPIES INC	COM	46116X101	-	4,753,541	56,915	SH	-	SOLE	-	55,588	0	1,327
INTUIT	COM	461202103	-	2,632,787	4,189	SH	-	SOLE	-	4,029	0	160
ITRON INC	COM	465741106	-	39,306	362	SH	-	SOLE	-	362	0	0
JOHNSON & JOHNSON	COM	478160104	-	46,134	319	SH	-	SOLE	-	319	0	0
JPMORGAN CHASE & CO.	COM	46625H100	-	874,942	3,650	SH	-	SOLE	-	3,650	0	0
KELLY SVCS INC	COM	488152208	-	973,124	69,808	SH	-	SOLE	-	34,817	0	34,991
KINIKSA PHARMACEUTICALS INTL P	COM	G52694109	-	3,437,744	173,799	SH	-	SOLE	-	88,325	0	85,474
KINROSS GOLD CORP	COM	496902404	-	24,667	2,661	SH	-	SOLE	-	2,661	0	0
KRATOS DEFENSE & SEC SOLUTIONS	COM	50077B207	-	9,710,689	368,108	SH	-	SOLE	-	244,250	0	123,858
LAIRD SUPERFOOD INC	COM	50736T102	-	157,135	19,941	SH	-	SOLE	-	19,941	0	0
LANTRONIX INC	COM	516548203	-	503	122	SH	-	SOLE	-	122	0	0
LENSAR INC	COM	52634L108	-	356,617	39,890	SH	-	SOLE	-	39,890	0	0
LEONARDO DRS INC	COM	52661A108	-	8,329,744	257,807	SH	-	SOLE	-	130,764	0	127,043
LIGAND PHARMACEUTICALS INC	COM	53220K504	-	6,991,216	65,247	SH	-	SOLE	-	50,104	0	15,143
LIGHTPATH TECHNOLOGIES INC	COM	532257805	-	338,446	95,877	SH	-	SOLE	-	95,877	0	0
LINCOLN EDL SVCS CORP	COM	533535100	-	6,322,305	399,640	SH	-	SOLE	-	207,555	0	192,085
LIQUIDITY SVCS INC	COM	53635B107	-	3,438,562	106,490	SH	-	SOLE	-	53,454	0	53,036
LOGILITY SUPPLY CHAIN SOLUTION	COM	029683109	-	2,604,132	235,030	SH	-	SOLE	-	118,108	0	116,922
LSI INDS INC OHIO	COM	50216C108	-	5,241,672	269,911	SH	-	SOLE	-	136,671	0	133,240
LYONDELLBASELL INDUSTRIES N V	COM	N53745100	-	1,857	25	SH	-	SOLE	-	25	0	0
MACOM TECH SOLUTIONS HLDGS INC	COM	55405Y100	-	701,514	5,400	SH	-	SOLE	-	5,400	0	0
MARSH & MCLENNAN COS INC	COM	571748102	-	906,353	4,267	SH	-	SOLE	-	4,267	0	0
MARTIN MARIETTA MATLS INC	COM	573284106	-	964,822	1,868	SH	-	SOLE	-	1,868	0	0

MASTERCARD INCORPORATED	COM	57636Q104	-	26,329	50	SH	-	SOLE	-	50	0	0
MATADOR RES CO	COM	576485205	-	2,263,621	40,235	SH	-	SOLE	-	22,167	0	18,068
MATRIX SVC CO	COM	576853105	-	2,494,057	208,359	SH	-	SOLE	-	105,318	0	103,041
MATSON INC	COM	57686G105	-	141,852	1,052	SH	-	SOLE	-	1,052	0	0
MEDIWOUND LTD	COM	M68830112	-	2,651,292	148,949	SH	-	SOLE	-	74,856	0	74,093
MERCK & CO INC	COM	58933Y105	-	112,611	1,132	SH	-	SOLE	-	1,028	0	104
METHODE ELECTRS INC	COM	591520200	-	1,444,664	122,533	SH	-	SOLE	-	62,124	0	60,409
MICRON TECHNOLOGY INC	COM	595112103	-	12,876	153	SH	-	SOLE	-	153	0	0
MICROSOFT CORP	COM	594918104	-	8,693,859	20,626	SH	-	SOLE	-	20,104	0	522
MIRION TECHNOLOGIES INC	COM	60471A101	-	5,309,250	304,255	SH	-	SOLE	-	144,904	0	159,351
MONOLITHIC PWR SYS INC	COM	609839105	-	177,510	300	SH	-	SOLE	-	300	0	0
MONTROSE ENVIRONMENTAL GROUP I	COM	615111101	-	2,026,142	109,226	SH	-	SOLE	-	54,971	0	54,255
MORGAN STANLEY	COM	617446448	-	45,636	363	SH	-	SOLE	-	363	0	0
MP MATERIALS CORP	COM	553368101	-	1,992,214	127,706	SH	-	SOLE	-	124,148	0	3,558
MRC GLOBAL INC	COM	55345K103	-	3,431,251	268,486	SH	-	SOLE	-	135,466	0	133,020
MYOMO INC	COM	62857J201	-	5,111,409	793,697	SH	-	SOLE	-	402,570	0	391,127
MYRIAD GENETICS INC	COM	62855J104	-	1,600,080	116,709	SH	-	SOLE	-	55,625	0	61,084
NEWMONT CORP	COM	651639106	-	179,750	4,829	SH	-	SOLE	-	4,829	0	0
NEXTERA ENERGY INC	COM	65339F101	-	8,473,113	118,191	SH	-	SOLE	-	115,459	0	2,732
NEXTERA ENERGY PARTNERS LP	COM	65341B106	-	1,371	77	SH	-	SOLE	-	77	0	0
NINE ENERGY SERVICE INC	COM	65441V101	-	126,538	112,980	SH	-	SOLE	-	112,980	0	0
NORTHERN TECHNOLOGIES INTL COR	COM	665809109	-	137,369	10,183	SH	-	SOLE	-	10,183	0	0
NOVA LTD	COM	M7516K103	-	177,255	900	SH	-	SOLE	-	900	0	0
NOVANTA INC	COM	67000B104	-	3,118,188	20,411	SH	-	SOLE	-	10,292	0	10,119
NOVOCURE LTD	COM	G6674U108	-	3,630,415	121,826	SH	-	SOLE	-	58,042	0	63,784
NUTANIX INC	COM	67059N108	-	41,969	686	SH	-	SOLE	-	686	0	0
NUTEX HEALTH INC	COM	67079U306	-	3,353,087	105,809	SH	-	SOLE	-	53,138	0	52,671
NV5 GLOBAL INC	COM	62945V109	-	105,504	5,600	SH	-	SOLE	-	5,600	0	0
NVENT ELECTRIC PLC	COM	G6700G107	-	57,391	842	SH	-	SOLE	-	842	0	0
OCULAR THERAPEUTIX INC	COM	67576A100	-	3,307,098	387,248	SH	-	SOLE	-	196,563	0	190,685
OLD REP INTL CORP	COM	680223104	-	31	1	SH	-	SOLE	-	1	0	0
OLO INC	COM	68134L109	-	3,021,274	393,395	SH	-	SOLE	-	199,660	0	193,735
ONE STOP SYS INC	COM	68247W109	-	247,213	73,795	SH	-	SOLE	-	73,795	0	0
ONESPAN INC	COM	68287N100	-	4,145,766	223,612	SH	-	SOLE	-	112,662	0	110,950
OOMA INC	COM	683416101	-	247,822	17,626	SH	-	SOLE	-	8,848	0	8,778
OPTEX SYS HLDGS INC	COM	68384X209	-	139,313	20,308	SH	-	SOLE	-	20,308	0	0
ORACLE CORP	COM	68389X105	-	166,640	1,000	SH	-	SOLE	-	1,000	0	0
ORGANON & CO	COM	68622V106	-	164	11	SH	-	SOLE	-	11	0	0
OUSTER INC	COM	68989M202	-	3,365,791	275,433	SH	-	SOLE	-	164,367	0	111,066
OWLET INC	COM	69120X206	-	113,301	25,461	SH	-	SOLE	-	25,461	0	0
PATRICK INDS INC	COM	703343103	-	4,023,716	48,432	SH	-	SOLE	-	28,009	0	20,423
PAYCHEX INC	COM	704326107	-	2,673,014	19,063	SH	-	SOLE	-	18,454	0	609
PAYMENTUS HOLDINGS INC	COM	70439P108	-	4,829,149	147,816	SH	-	SOLE	-	70,566	0	77,250
PEGASYSYSTEMS INC	COM	705573103	-	4,276,109	45,881	SH	-	SOLE	-	44,798	0	1,083
PEPSICO INC	COM	713448108	-	898,827	5,911	SH	-	SOLE	-	5,911	0	0
PERFORMANT HEALTHCARE INC	COM	71377E105	-	2,132,860	706,245	SH	-	SOLE	-	354,882	0	351,363
PERMA-FIX ENVIRONMENTAL SVCS	COM	714157203	-	2,129,126	192,333	SH	-	SOLE	-	97,107	0	95,226
PERMA-PIPE INTL HLDGS INC	COM	714167103	-	196,099	13,117	SH	-	SOLE	-	13,117	0	0
PFIZER INC	COM	717081103	-	3,364,269	126,810	SH	-	SOLE	-	123,509	0	3,301
PHILIP MORRIS INTL INC	COM	718172109	-	48,381	402	SH	-	SOLE	-	402	0	0
PHREESIA INC	COM	71944F106	-	2,584,888	102,738	SH	-	SOLE	-	48,970	0	53,768
PIXELWORKS INC	COM	72581M305	-	39,416	54,032	SH	-	SOLE	-	54,032	0	0
PPL CORP	COM	69351T106	-	40,185	1,238	SH	-	SOLE	-	1,238	0	0
PRIMORIS SVCS CORP	COM	74164F103	-	11,182,744	146,371	SH	-	SOLE	-	142,696	0	3,675
PROCEPT BIOROBOTICS CORP	COM	74276L105	-	4,164,897	51,725	SH	-	SOLE	-	24,659	0	27,066
PROCTER AND GAMBLE CO	COM	742718109	-	1,584,125	9,449	SH	-	SOLE	-	9,449	0	0
Q2 HLDGS INC	COM	74736L109	-	146,446	1,455	SH	-	SOLE	-	1,455	0	0
QUANTA SVCS INC	COM	74762E102	-	595,754	1,885	SH	-	SOLE	-	1,478	0	407
QUIDELORTHO CORP	COM	219798105	-	2,842,156	63,797	SH	-	SOLE	-	32,462	0	31,335

RADCOM LTD	COM	M81865111	-	2,832,084	229,133	SH	-	SOLE	-	114,872	0	114,261
RANGE RES CORP	COM	75281A109	-	39,254	1,091	SH	-	SOLE	-	1,091	0	0
RED VIOLET INC	COM	75704L104	-	2,175,511	60,097	SH	-	SOLE	-	30,227	0	29,870
REGAL REKNORD CORPORATION	COM	758750103	-	15,513	100	SH	-	SOLE	-	100	0	0
RESEARCH SOLUTIONS INC	COM	761025105	-	2,472,101	595,687	SH	-	SOLE	-	309,048	0	286,639
REVOLVE GROUP INC	COM	76156B107	-	3,829,916	114,360	SH	-	SOLE	-	68,761	0	45,599
RICHARDSON ELECTRS LTD	COM	763165107	-	228,436	16,282	SH	-	SOLE	-	16,282	0	0
RIVIAN AUTOMOTIVE INC	COM	76954A103	-	624,249	46,936	SH	-	SOLE	-	45,637	0	1,299
ROCKWELL AUTOMATION INC	COM	773903109	-	20,005	70	SH	-	SOLE	-	70	0	0
ROYAL GOLD INC	COM	780287108	-	27,689	210	SH	-	SOLE	-	192	0	18
RTX CORPORATION	COM	75513E101	-	90,030	778	SH	-	SOLE	-	778	0	0
SALESFORCE INC	COM	79466L302	-	7,355,260	22,000	SH	-	SOLE	-	21,469	0	531
SANDOZ GROUP AG	COM	799926100	-	8,222	203	SH	-	SOLE	-	203	0	0
SCHLUMBERGER LTD	COM	806857108	-	19,707	514	SH	-	SOLE	-	514	0	0
SELECT MED HLDGS CORP	COM	81619Q105	-	2,522,488	133,819	SH	-	SOLE	-	132,207	0	1,612
SEMPRA	COM	816851109	-	34,211	390	SH	-	SOLE	-	390	0	0
SHYFT GROUP INC	COM	825698103	-	1,875,125	159,721	SH	-	SOLE	-	79,891	0	79,830
SI-BONE INC	COM	825704109	-	2,918,403	208,160	SH	-	SOLE	-	103,918	0	104,242
SIMILARWEB LTD	COM	M84137104	-	3,752,499	264,820	SH	-	SOLE	-	133,509	0	131,311
SITIME CORP	COM	82982T106	-	182,351	850	SH	-	SOLE	-	850	0	0
SNAP ON INC	COM	833034101	-	409,073	1,205	SH	-	SOLE	-	893	0	312
SOUTHERN CO	COM	842587107	-	197,568	2,400	SH	-	SOLE	-	2,400	0	0
STEREOTAXIS INC	COM	85916J409	-	2,765,558	1,212,964	SH	-	SOLE	-	612,249	0	600,715
STERLING INFRASTRUCTURE INC	COM	859241101	-	6,347,701	37,683	SH	-	SOLE	-	26,945	0	10,738
STRATTEC SEC CORP	COM	863111100	-	230,061	5,584	SH	-	SOLE	-	5,584	0	0
SUNOPTA INC	COM	8676EP108	-	5,607,995	728,311	SH	-	SOLE	-	497,879	0	230,432
SUNRUN INC	COM	86771W105	-	402,782	43,544	SH	-	SOLE	-	42,238	0	1,306
SWEETGREEN INC	COM	87043Q108	-	2,473,012	77,137	SH	-	SOLE	-	36,780	0	40,357
TARSUS PHARMACEUTICALS INC	COM	87650L103	-	4,416,311	79,760	SH	-	SOLE	-	37,980	0	41,780
TENET HEALTHCARE CORP	COM	88033G407	-	2,760,271	21,867	SH	-	SOLE	-	21,346	0	521
TERADYNE INC	COM	880770102	-	18,258	145	SH	-	SOLE	-	145	0	0
TESLA INC	COM	88160R101	-	270,573	670	SH	-	SOLE	-	670	0	0
TETRA TECH INC NEW	COM	88162G103	-	1,771,127	44,456	SH	-	SOLE	-	43,196	0	1,260
TETRA TECHNOLOGIES INC DEL	COM	88162F105	-	2,726,718	761,653	SH	-	SOLE	-	383,905	0	377,748
TOWER SEMICONDUCTOR LTD	COM	M87915274	-	9,446,522	183,392	SH	-	SOLE	-	137,115	0	46,277
TRANE TECHNOLOGIES PLC	COM	G8994E103	-	55,403	150	SH	-	SOLE	-	81	0	69
TRANSACT TECHNOLOGIES INC	COM	892918103	-	179,310	43,841	SH	-	SOLE	-	43,841	0	0
TRANSCAT INC	COM	893529107	-	4,048,679	38,289	SH	-	SOLE	-	19,269	0	19,020
TRIMBLE INC	COM	896239100	-	2,017,060	28,546	SH	-	SOLE	-	27,759	0	787
TRIPADVISOR INC	COM	896945201	-	12,806	867	SH	-	SOLE	-	867	0	0
TURTLE BEACH CORP	COM	900450206	-	3,547,875	204,961	SH	-	SOLE	-	103,278	0	101,683
ULTA BEAUTY INC	COM	90384S303	-	382,303	879	SH	-	SOLE	-	879	0	0
UNION PAC CORP	COM	907818108	-	7,981	35	SH	-	SOLE	-	35	0	0
UNITED GUARDIAN INC	COM	910571108	-	67,914	7,104	SH	-	SOLE	-	7,104	0	0
UNITED PARCEL SERVICE INC	COM	911312106	-	50,944	404	SH	-	SOLE	-	404	0	0
UNIVERSAL INS HLDGS INC	COM	91359V107	-	3,749,480	178,038	SH	-	SOLE	-	89,400	0	88,638
UPWORK INC	COM	91688F104	-	2,224,401	136,049	SH	-	SOLE	-	64,968	0	71,081
VALERO ENERGY CORP	COM	91913Y100	-	816,695	6,662	SH	-	SOLE	-	6,662	0	0
VALMONT INDS INC	COM	920253101	-	2,808,791	9,159	SH	-	SOLE	-	8,904	0	255
VERIZON COMMUNICATIONS INC	COM	92343V104	-	533,627	13,344	SH	-	SOLE	-	13,344	0	0
VERTEX INC	COM	92538J106	-	49,562	929	SH	-	SOLE	-	929	0	0
VIRTRA INC	COM	92827K301	-	87,791	13,006	SH	-	SOLE	-	13,006	0	0
VISA INC	COM	92826C839	-	36,977	117	SH	-	SOLE	-	117	0	0
WABTEC	COM	929740108	-	68,632	362	SH	-	SOLE	-	362	0	0
WASTE MGMT INC DEL	COM	94106L109	-	115,222	571	SH	-	SOLE	-	571	0	0
WATTS WATER TECHNOLOGIES INC	COM	942749102	-	1,017	5	SH	-	SOLE	-	5	0	0
WEC ENERGY GROUP INC	COM	92939U106	-	40,437	430	SH	-	SOLE	-	430	0	0
WEX INC	COM	96208T104	-	24,019	137	SH	-	SOLE	-	137	0	0
WHEATON PRECIOUS METALS CORP	COM	962879102	-	459,143	8,164	SH	-	SOLE	-	8,164	0	0

WIDEPOINT CORP	COM	967590209	-	245,383	50,699	SH	-	SOLE	-	50,699	0	0
WILLDAN GROUP INC	COM	96924N100	-	5,256,687	138,007	SH	-	SOLE	-	69,608	0	68,399
WILLIAMS COS INC	COM	969457100	-	36,802	680	SH	-	SOLE	-	680	0	0
XERIS BIOPHARMA HOLDINGS INC	COM	98422E103	-	1,610,097	474,955	SH	-	SOLE	-	238,671	0	236,284
XYLEM INC	COM	98419M100	-	2,647,702	22,821	SH	-	SOLE	-	22,531	0	290
ZETA GLOBAL HOLDINGS CORP	COM	98956A105	-	2,803,742	155,850	SH	-	SOLE	-	74,320	0	81,530
ZSCALER INC	COM	98980G102	-	2,559,477	14,187	SH	-	SOLE	-	13,846	0	341
BP PLC	ADR	055622104	-	4,209,919	142,419	SH	-	SOLE	-	140,671	0	1,748
BRAINSWAY LTD	ADR	10501L106	-	2,880,356	305,446	SH	-	SOLE	-	159,383	0	146,063
EQUINOR ASA	ADR	29446M102	-	278,192	11,743	SH	-	SOLE	-	11,743	0	0
NOVARTIS AG	ADR	66987V109	-	270,035	2,775	SH	-	SOLE	-	2,775	0	0
RIO TINTO PLC	ADR	767204100	-	85,392	1,452	SH	-	SOLE	-	1,452	0	0
SANOFI	ADR	80105N105	-	9,646	200	SH	-	SOLE	-	200	0	0
ISHARES SILVER TR	ETF	46428Q109	-	20,300	771	SH	-	SOLE	-	699	0	72
ISHARES TR	ETF	464287648	-	142,183	494	SH	-	SOLE	-	494	0	0
SPDR S&P 500 ETF TR	ETF	78462F103	-	47,472	81	SH	-	SOLE	-	0	0	81
VANECK ETF TRUST	ETF	92189F791	-	6,669	156	SH	-	SOLE	-	156	0	0
VANGUARD INDEX FDS	ETF	922908769	-	349,511	1,206	SH	-	SOLE	-	1,206	0	0