

Kentucky Retirement Systems

Domestic and Global Commissions Report

Quarter Ending: March 31, 2021

Kentucky Retirement Systems					
Domestic Equity - Common Stock Commissions					
Quarter Ended March 31, 2021					

Broker/Account	Shares Traded	Commission	Value of Trade	Per Share	% Cost of Trade
B RILEY AND CO LLC, NEW YORK	237,247	7,627	9,888,511	0.0321	0.0771%
BAIRD, ROBERT W & CO INC, MILWAUKEE	2,580	103	237,741	0.0400	0.0434%
BARCLAYS	265,886	2,558	3,634,225	0.0096	0.0704%
BERNSTEIN SANFORD C & CO, NEW YORK	399,090	10,212	20,017,155	0.0256	0.0510%
BNY MELLON CLEARING	67,041	2,490	2,962,882	0.0371	0.0840%
BTIG LLC, NEW YORK	1,318,985	39,345	61,842,623	0.0298	0.0636%
CANTOR FITZGERALD & CO INC, NEW YORK	426,039	12,781	16,413,314	0.0300	0.0779%
CITIGROUP	67,630	547	1,388,493	0.0081	0.0394%
COWEN AND CO LLC, NEW YORK	41,020	308	783,612	0.0075	0.0393%
CREDIT SUISSE	202,604	3,371	12,420,304	0.0166	0.0271%
GOLDMAN SACHS	120,450	3,542	7,832,916	0.0294	0.0452%
GUGGENHEIM CAPITAL MARKETS LLC, NEW YORK	431,491	15,111	10,683,334	0.0350	0.1414%
INSTINET CORP	395,931	9,819	14,195,341	0.0248	0.0692%
INVESTMENT TECH GROUP INC, NEW YORK	188,693	4,537	8,754,714	0.0240	0.0518%
ISI GROUP	546,383	10,442	17,379,340	0.0191	0.0601%
ITG INC, NEW YORK	180,476	1,480	8,166,984	0.0082	0.0181%
J.P MORGAN SECURITIES INC, NEW YORK	441,494	5,980	30,110,850	0.0135	0.0199%
JEFFERIES & CO INC, NEW YORK	48,995	815	2,352,047	0.0166	0.0346%
JMP SECURITIES, SAN FRANCISCO	16,160	646	1,707,479	0.0400	0.0379%
JONESTRADING INST SVCS LLC, NEW YORK	6,710	201	1,765,038	0.0300	0.0114%
KEEFE BRUYETTE + WOODS INC, NEW YORK	62,610	2,504	4,067,243	0.0400	0.0616%
KEYBANC CAPITAL MARKETS INC, NEW YORK	11,957	478	1,584,434	0.0400	0.0302%
LEERINK SWANN AND COMPANY, NEW YORK	20,799	832	520,026	0.0400	0.1600%
LIQUIDNET INC, NEW YORK	1,583,810	23,189	42,384,866	0.0146	0.0547%
LUMINEX TRADING AND ANALYTICS, BOSTON	140,268	2,446	8,205,237	0.0174	0.0298%
MERRILL LYNCH	459,444	12,044	25,592,044	0.0262	0.0471%
MORGAN STANLEY	73,839	2,954	1,669,332	0.0400	0.1769%
NATIONAL FINL SVCS CORP, NEW YORK	50,569	2,023	3,226,617	0.0400	0.0627%
NEEDHAM AND CO LLC, NEW YORK	23,606	944	2,271,196	0.0400	0.0416%
NORTHLAND SECURITIES INC., NEW YORK	120,689	3,621	1,632,842	0.0300	0.2217%
PIPER JAFFRAY & CO., JERSEY CITY	553,199	17,846	18,977,181	0.0323	0.0940%
RAYMOND JAMES & ASSOC INC, ST PETERSBURG	165,997	4,451	17,147,883	0.0268	0.0260%
RBC CAPITAL MARKETS	206,208	1,547	4,818,398	0.0075	0.0321%
SCOTIA CAPITAL (USA) INC, NEW YORK	17,890	134	458,208	0.0075	0.0293%
STIFEL NICOLAUS	40,950	1,638	5,471,642	0.0400	0.0299%
SUNTRUST CAPITAL MARKETS INC, NEW YORK	31,387	1,255	4,606,230	0.0400	0.0273%
TOURMALINE PARTNERS LLC, NEW YORK	33,849	677	1,891,744	0.0200	0.0358%
UBS	1,776,276	17,777	169,253,876	0.0100	0.0105%
VIRTU AMERICAS LLC, NEW YORK	134,505	3,711	4,471,442	0.0276	0.0830%
WEDBUSH MORGAN SECS INC, LOS ANGELES	226,312	6,888	3,653,951	0.0304	0.1885%
WELLS FARGO SECURITIES, LLC, NEW YORK	141,797	5,484	8,159,646	0.0387	0.0672%
WILLIAM BLAIR & CO, CHICAGO	199,395	7,976	9,179,499	0.0400	0.0869%
TOTAL DOMESTIC	11,480,261	252,335	571,780,440	0.0220	0.0441%

Broker/Account	Shares Traded	Commission	Value of Trade	Per Share	% Cost of Trade
DAG VENTURES V QP	27,120	271	507,390	0.0100	0.0534%
NEXT CENTURY GROWTH	2,469,201	61,044	66,471,806	0.0247	0.0918%
NTGI STRUCTURED	170,779	1,284	5,488,045	0.0075	0.0234%
RIVER ROAD FAV	3,986,664	108,304	173,946,806	0.0272	0.0623%
S&P 500 INDEX	1,746,655	17,467	168,584,913	0.0100	0.0104%
TORTOISE CAP	1,301,535	10,919	25,027,757	0.0084	0.0436%
WATERFALL	6,200	186	141,736	0.0300	0.1312%
WESTFIELD CAPITAL	1,772,107	52,860	131,611,987	0.0298	0.0402%
TOTAL DOMESTIC	11,480,261	252,335	571,780,440	0.0220	0.0441%

Kentucky Retirement Systems					
Global Equity - Common Stock Commissions					
Quarter Ended March 31, 2021					

Broker/Account	Shares Traded	Commission	Value of Trade	Per Share	% Cost of Trade
ABN AMRO CLEARING BANK N.V, AMSTERDAM	26,594	710	3,343,525	0.0267	0.0212%
BAIRD, ROBERT W & CO INC, MILWAUKEE	36,578	1,164	3,983,822	0.0318	0.0292%
BANCO ITAU, SAO PAULO	345,200	909	910,616	0.0026	0.0999%
BARCLAYS	860,653	1,876	13,833,256	0.0022	0.0136%
BERENBERG GOSSLER & CIE, HAMBURG	2,120	411	822,362	0.1939	0.0500%
BERNSTEIN SANFORD C & CO, NEW YORK	3,069,571	6,579	9,083,698	0.0021	0.0724%
BNP PARIBUS	584,528	3,918	7,328,896	0.0067	0.0535%
BNY MELLON CLEARING	709,080	13,561	24,187,010	0.0191	0.0561%
BOFA SECURITIES, INC, NEW YORK	3,500	6	15,737	0.0018	0.0401%
BRASIL PLURAL CCTVM SA, SAO PAULO	1,750,000	1,536	1,538,344	0.0009	0.0999%
BROCKHOUSE AND COOPER, MONTREAL	9,900	13	44,333	0.0013	0.0300%
CANADIAN IMPERIAL BK OF COMMERCE, NY	1,186,540	6,886	11,469,704	0.0058	0.0600%
CANTOR FITZGERALD & CO INC, NEW YORK	16,951	509	1,892,143	0.0300	0.0269%
CIBC WORLD MKTS INC, TORONTO	74,001	1,757	1,126,550	0.0237	0.1559%
CITIGROUP	4,165,156	15,987	29,691,545	0.0038	0.0538%
CLSA INDIA LTD, MUMBAI	269,499	674	1,200,448	0.0025	0.0561%
CREDIT LYONNAIS SEC, SEOUL	31,363	4,785	2,911,717	0.1526	0.1643%
CREDIT LYONNAIS SECS (ASIA), HONG KONG	1,657,000	7,190	7,376,480	0.0043	0.0975%
CREDIT LYONNAIS SECS ASIA LTD, TAIPEI	1,041,000	2,177	2,814,128	0.0021	0.0774%
CREDIT SUISSE	8,328,136	48,776	51,282,856	0.0059	0.0951%
D CARNEGIE AB, STOCKHOLM	135,875	16,212	10,824,348	0.1193	0.1498%
DAIWA SECURITIES	183,609	7,019	13,417,074	0.0382	0.0523%
DEPOSITORY TR CO (DTC), TORONTO (DTCC)	38,159	604	585,562	0.0158	0.1032%
DEXIA BK (FORMERLY KEMPEN), AMSTERDAM	35,897	1,722	2,452,521	0.0480	0.0702%
EXANE, PARIS (EXANFRPP)	89,718	4,489	5,158,601	0.0500	0.0870%
GOLDMAN SACHS	1,782,973	21,671	42,219,289	0.0122	0.0513%
HAITONG INTL SEC CO LTD, HONG KONG	13,400	172	573,666	0.0129	0.0300%
HANWHA SECS CO LTD, SEOUL	23,838	258	858,327	0.0108	0.0300%
HSBC	982,214	5,200	5,081,953	0.0053	0.1023%
INSTINET CORP	485,842	1,226	3,116,432	0.0025	0.0393%
INVESTEC MARKETS(PROPRIETARY)LI, SANDTON	13,830	182	182,348	0.0131	0.0996%
INVESTMENT TECHNOLOGY GROUP LTD,DUBLIN	556,140	719	3,056,025	0.0013	0.0235%
ITG HONG KONG LIMITED, HONG KONG	434,000	437	437,605	0.0010	0.0998%
J.P MORGAN SECURITIES INC, NEW YORK	8,150	122	2,126,125	0.0150	0.0057%
JEFFERIES & CO INC, NEW YORK	115,100	2,855	5,623,705	0.0248	0.0508%
JEFFERIES & CO LTD, LONDON	120,600	1,154	3,846,728	0.0096	0.0300%
JEFFERIES HONG KONG LIMITED, HONG KONG	3,544,000	2,243	3,950,088	0.0006	0.0568%
JP MORGAN SECURITIES	2,821,750	26,932	37,907,625	0.0095	0.0710%
JPMORGAN SECURITIES INC, NEW YORK	4,573	63	315,785	0.0138	0.0200%
KEPLER EQUITIES, PARIS	44,302	937	1,873,254	0.0212	0.0500%
LIQUIDNET ASIA LTD, HONG KONG	58,900	298	994,827	0.0051	0.0300%
LIQUIDNET CANADA INC, TORONTO	10,359	124	287,992	0.0120	0.0432%
LIQUIDNET EUROPE LIMITED, LONDON	521,496	2,572	4,594,169	0.0049	0.0560%
LIQUIDNET INC, NEW YORK	20,704	104	129,607	0.0050	0.0799%
MACQUARIE SECURITIES	1,649,100	6,741	10,571,716	0.0041	0.0638%
MERRILL LYNCH	3,549,848	8,462	23,552,199	0.0024	0.0359%
MITSUBISHI SECURITIES	700	21	42,364	0.0303	0.0500%
MIZUHO SECURITIES USA INC, NEW YORK	10,466	209	460,022	0.0200	0.0455%
MIZUHO SECURITIES USA INC. NEW YORK	101,300	8,323	8,378,823	0.0822	0.0993%
MORGAN STANLEY	1,653,483	34,321	60,322,605	0.0208	0.0569%
NATIONAL FINL SVCS CORP, NEW YORK	72,447	2,016	10,056,520	0.0278	0.0201%
NBCN INC, TORONTO (NBCS)	4,290	102	59,270	0.0237	0.1716%
NESBITT BURNS, TORONTO (NTDT)	90,823	1,075	1,721,630	0.0118	0.0624%
NUMIS SECURITIES INC., NEW YORK	4,297	146	292,958	0.0341	0.0500%
RAYMOND JAMES & ASSOC INC, ST PETERSBURG	9,270	324	162,485	0.0350	0.1997%
RBC CAPITAL MARKETS	331,679	6,267	7,337,597	0.0189	0.0854%
REDBURN PARTNERS LLP, LONDON	162,336	2,756	3,962,371	0.0170	0.0696%
RENAISSANCE CAPITAL LTD, LONDON	6,751	207	295,639	0.0306	0.0700%
RENAISSANCE SECS (CYPBUS) LTD, NICOSIA	963,489	1,893	538,945	0.0020	0.3512%
SANFORD C BERNSTEIN & CO INC, LONDON	3,526,565	15,873	21,620,585	0.0045	0.0734%
SG SECURITIES, HONG KONG	70,000	54	180,525	0.0008	0.0300%
SKANDINAVISKA ENSKILDA BANKEN, STOCKHOLM	4,887	43	85,189	0.0087	0.0500%

SMBC SECURITIES, INC NEW YORK	12,800	375	748,849	0.0293	0.0500%
SOCIETE GENERALE, PARIS	66,442	551	1,104,996	0.0083	0.0498%
STIFEL NICOLAUS	26,442	793	1,012,039	0.0300	0.0784%
TD WATERHOUSE SEC, TORONTO (GIST)	130,279	2,751	2,161,584	0.0211	0.1273%
TORONTO DOMINION SEC, TORONTO	4,656	111	126,967	0.0239	0.0876%
UBS	5,006,281	19,977	35,436,136	0.0040	0.0564%
UNION BANK OF SWITZERLAND, ZURICH	7,000	1,762	2,518,428	0.2517	0.0700%
UNION BANK SWITZERLAND SECS, LONDON	1,232,400	328	1,369,373	0.0003	0.0240%
WARBURG DILLON READ SEC, MUMBAI	108,292	702	1,401,073	0.0065	0.0501%
WILLIAM BLAIR & CO, CHICAGO	42,334	1,270	1,964,749	0.0300	0.0646%
XP INVESTIMENTOS CCTVM SA,RIO DE JANEIRO	1,346,900	2,470	4,119,993	0.0018	0.0599%
TOTAL GLOBAL	56,408,356	336,665	526,076,456	0.0060	0.0640%

Broker/Account	Shares Traded	Commission	Value of Trade	Per Share	% Cost of Trade
AMERICAN CENTURY	9,150,046	92,076	147,866,837	0.0101	0.0623%
FRANKIN TEMPLETON	4,462,600	98,782	123,377,811	0.0221	0.0801%
JP MORGAN EMERG MKTS	6,734,324	26,901	51,072,291	0.0040	0.0527%
LAZARD ASSET MGMT	1,949,486	31,728	63,505,048	0.0163	0.0500%
LSV ASSET MANAGEMENT	11,726,228	16,225	38,008,267	0.0014	0.0427%
LSV ASSET MGMT	4,760,061	6,996	16,392,266	0.0015	0.0427%
MANULIFE ASSET MGMT	714,299	20,491	30,580,338	0.0287	0.0670%
PZENA EMERGING MKTS	16,911,312	43,466	55,273,598	0.0026	0.0786%
TOTAL GLOBAL	56,408,356	336,665	526,076,456	0.0060	0.0640%