

Kentucky Public Pensions Authority

Domestic and Global Commissions Report

Quarter Ending: March 31, 2022

Kentucky Public Pensions Authority
Domestic Equity - Common Stock Commissions
Quarter Ended March 31, 2022

| Broker/Account | Shares Traded | Commission | Value of Trade | Per Share | % Cost of Trade |
|--|-------------------|----------------|--------------------|---------------|-----------------|
| BARCLAYS | 284,718 | 3,801 | 9,818,115 | 0.0133 | 0.0387% |
| BERNSTEIN SANFORD C & CO, NEW YORK | 620,048 | 14,914 | 35,720,705 | 0.0241 | 0.0418% |
| BNY MELLON CLEARING | 28,301 | 1,132 | 898,820 | 0.0400 | 0.1259% |
| BTIG LLC, NEW YORK | 1,368,062 | 13,681 | 86,626,689 | 0.0100 | 0.0158% |
| CANTOR FITZGERALD & CO INC, NEW YORK | 1,532,961 | 19,203 | 66,396,819 | 0.0125 | 0.0289% |
| CITIGROUP | 137,677 | 1,723 | 3,580,328 | 0.0125 | 0.0481% |
| COWEN AND CO LLC, NEW YORK | 21,550 | 862 | 4,147,094 | 0.0400 | 0.0208% |
| CREDIT SUISSE | 100,178 | 2,004 | 10,300,109 | 0.0200 | 0.0195% |
| DOUGHERTY & COMPANY LLC, MINNEAPOLIS | 105,412 | 4,216 | 3,005,452 | 0.0400 | 0.1403% |
| GOLDMAN SACHS | 62,749 | 1,569 | 6,426,235 | 0.0250 | 0.0244% |
| GUGGENHEIM CAPITAL MARKETS LLC, NEW YORK | 160,129 | 6,388 | 7,059,981 | 0.0399 | 0.0905% |
| INSTINET CORP | 318,927 | 5,498 | 32,613,949 | 0.0172 | 0.0169% |
| ISI GROUP | 194,940 | 1,725 | 7,014,011 | 0.0088 | 0.0246% |
| J.P MORGAN SECURITIES INC, NEW YORK | 302,591 | 4,139 | 29,579,771 | 0.0137 | 0.0140% |
| KEEFE BRUYETTE + WOODS INC, NEW YORK | 40,960 | 1,638 | 6,262,692 | 0.0400 | 0.0262% |
| LEERINK SWANN AND COMPANY, NEW YORK | 26,892 | 1,076 | 1,686,618 | 0.0400 | 0.0638% |
| LIQUIDNET INC, NEW YORK | 1,191,637 | 13,210 | 41,313,460 | 0.0111 | 0.0320% |
| LUMINEX TRADING AND ANALYTICS, BOSTON | 279,332 | 7,542 | 14,082,744 | 0.0270 | 0.0536% |
| MERRILL LYNCH | 199,539 | 1,629 | 4,782,916 | 0.0082 | 0.0341% |
| NATIONAL FINL SVCS CORP, NEW YORK | 18,789 | 752 | 861,431 | 0.0400 | 0.0872% |
| NEEDHAM AND CO LLC, NEW YORK | 192,907 | 7,288 | 11,196,324 | 0.0378 | 0.0651% |
| OPPENHEIMER & CO INC, NEW YORK | 50,740 | 2,030 | 2,296,082 | 0.0400 | 0.0884% |
| PIPER JAFFRAY & CO., JERSEY CITY | 844,053 | 23,493 | 24,271,071 | 0.0278 | 0.0968% |
| RAYMOND JAMES & ASSOC INC, ST PETERSBURG | 532,241 | 12,942 | 40,482,354 | 0.0243 | 0.0320% |
| RBC CAPITAL MARKETS | 168,812 | 1,278 | 3,073,075 | 0.0076 | 0.0416% |
| STIFEL NICOLAUS | 21,838 | 874 | 1,713,561 | 0.0400 | 0.0510% |
| UBS | 3,141,572 | 31,416 | 392,252,742 | 0.0100 | 0.0080% |
| USCA SECURITIES LLC, HOUSTON | 49,336 | 370 | 457,838 | 0.0075 | 0.0808% |
| VIRTU AMERICAS LLC, NEW YORK | 42,802 | 1,070 | 1,718,385 | 0.0250 | 0.0623% |
| WEDBUSH MORGAN SECS INC, LOS ANGELES | 48,534 | 1,941 | 2,063,413 | 0.0400 | 0.0941% |
| WELLS FARGO SECURITIES, LLC, NEW YORK | 197,623 | 4,507 | 10,754,889 | 0.0228 | 0.0419% |
| WILLIAM BLAIR & CO, CHICAGO | 322,783 | 9,814 | 3,309,799 | 0.0304 | 0.2965% |
| TOTAL DOMESTIC | 12,608,633 | 203,722 | 865,767,472 | 0.0162 | 0.0235% |

Kentucky Public Pensions Authority
Domestic Equity - Common Stock Commissions
Quarter Ended March 31, 2022

| Broker/Account | Shares Traded | Commission | Value of Trade | Per Share | % Cost of Trade |
|-----------------------|-------------------|----------------|--------------------|---------------|-----------------|
| DAG VENTURES V QP | 75,724 | 757 | 389,394 | 0.0100 | 0.1945% |
| NEXT CENTURY GROWTH | 2,487,723 | 59,698 | 63,163,477 | 0.0240 | 0.0945% |
| NTGI STRUCTURED | 195,349 | 1,988 | 4,898,780 | 0.0102 | 0.0406% |
| RIVER ROAD FAV | 4,253,689 | 67,022 | 239,957,222 | 0.0158 | 0.0279% |
| S&P 500 INDEX | 3,065,848 | 30,658 | 391,863,348 | 0.0100 | 0.0078% |
| TORTOISE CAP | 1,302,949 | 9,943 | 22,556,771 | 0.0076 | 0.0441% |
| WESTFIELD CAPITAL | 1,227,351 | 33,655 | 142,938,480 | 0.0274 | 0.0235% |
| TOTAL DOMESTIC | 12,608,633 | 203,722 | 865,767,472 | 0.0162 | 0.0235% |

Kentucky Public Pensions Authority
Global Equity - Common Stock Commissions
Quarter Ended March 31, 2022

| Broker/Account | Shares Traded | Commission | Value of Trade | Per Share | % Cost of Trade |
|---|-------------------|----------------|--------------------|---------------|-----------------|
| ABN AMRO CLEARING BANK N.V, AMSTERDAM | 8,681 | 232 | 464,724 | 0.0268 | 0.0500% |
| BAIRD, ROBERT W & CO INC, MILWAUKEE | 198 | 2 | 2,298 | 0.0100 | 0.0862% |
| BANCO BTG PACTUAL SA, RIO DE JANEIRO | 130,200 | 207 | 344,118 | 0.0016 | 0.0601% |
| BANCO ITAU, SAO PAULO | 430,902 | 1,068 | 1,095,056 | 0.0025 | 0.0976% |
| BARCLAYS | 124,360 | 10,123 | 12,918,572 | 0.0814 | 0.0784% |
| BERENBERG GOSSLER & CIE, HAMBURG | 737,595 | 6,346 | 6,859,923 | 0.0086 | 0.0925% |
| BERNSTEIN SANFORD C & CO, NEW YORK | 2,464,850 | 8,054 | 23,764,887 | 0.0033 | 0.0339% |
| BNP PARIBUS | 225,400 | 2,373 | 4,141,710 | 0.0105 | 0.0573% |
| BNY MELLON CLEARING | 4,019,766 | 15,749 | 17,874,243 | 0.0039 | 0.0881% |
| BOFA SECURITIES, INC, NEW YORK | 36,400 | 152 | 189,634 | 0.0042 | 0.0799% |
| CITIGROUP | 1,830,831 | 15,132 | 19,919,823 | 0.0083 | 0.0760% |
| CLSA INDIA LTD, MUMBAI | 9,026 | 335 | 335,578 | 0.0371 | 0.0998% |
| CREDIT LYONNAIS SEC, SEOUL | 4,498 | 96 | 128,765 | 0.0215 | 0.0749% |
| CREDIT LYONNAIS SECS (ASIA), HONG KONG | 143,900 | 469 | 1,362,429 | 0.0033 | 0.0344% |
| CREDIT LYONNAIS SECS ASIA LTD, TAIPEI | 156,000 | 900 | 1,721,019 | 0.0058 | 0.0523% |
| CREDIT LYONNAIS SECS, SINGAPORE | 59,200 | 1,122 | 2,244,417 | 0.0190 | 0.0500% |
| CREDIT SUISSE | 9,695,193 | 24,285 | 49,846,771 | 0.0025 | 0.0487% |
| D CARNEGIE AB, STOCKHOLM | 71,653 | 498 | 995,492 | 0.0070 | 0.0500% |
| DAIWA SECURITIES | 363,149 | 3,757 | 7,453,391 | 0.0103 | 0.0504% |
| EXANE, PARIS (EXANFRPP) | 558,960 | 8,742 | 17,015,651 | 0.0156 | 0.0514% |
| FUBON SECS CO LTD (HEAD OFFICE), TAIPEI | 10,000 | 91 | 90,993 | 0.0091 | 0.0998% |
| GOLDMAN SACHS | 753,118 | 7,310 | 21,171,858 | 0.0097 | 0.0345% |
| HANWHA SECS CO LTD, SEOUL | 16,540 | 637 | 460,937 | 0.0385 | 0.1383% |
| HSBC | 119,597 | 1,986 | 3,839,790 | 0.0166 | 0.0517% |
| INSTINET CORP | 1,884,417 | 1,235 | 3,590,924 | 0.0007 | 0.0344% |
| INVESTMENT TECHNOLOGY GROUP LTD,DUBLIN | 1,975,074 | 3,724 | 12,757,793 | 0.0019 | 0.0292% |
| ITG CANADA CORP, TORONTO | 7,470 | 59 | 283,097 | 0.0079 | 0.0208% |
| J.P MORGAN SECURITIES INC, NEW YORK | 29,520 | 386 | 3,488,331 | 0.0131 | 0.0111% |
| JEFFERIES & CO INC, NEW YORK | 218,969 | 2,174 | 10,789,917 | 0.0099 | 0.0202% |
| JEFFERIES & CO LTD, LONDON | 94,872 | 4,185 | 5,624,008 | 0.0441 | 0.0744% |
| JOURNAL | 125 | 1 | 1,123 | 0.0100 | 0.1113% |
| JP MORGAN SECURITIES | 4,010,710 | 16,626 | 39,337,452 | 0.0041 | 0.0423% |
| JPMORGAN SECURITIES INC, NEW YORK | 34,780 | 1,511 | 2,689,740 | 0.0434 | 0.0562% |
| KEPLER EQUITIES, PARIS | 34,602 | 436 | 873,300 | 0.0126 | 0.0500% |
| LIQUIDNET ASIA LTD, HONG KONG | 14,700 | 81 | 271,834 | 0.0055 | 0.0299% |
| LIQUIDNET CANADA INC, TORONTO | 40,699 | 485 | 3,341,495 | 0.0119 | 0.0145% |
| LIQUIDNET EUROPE LIMITED, LONDON | 169,695 | 1,130 | 2,261,653 | 0.0067 | 0.0499% |
| LIQUIDNET INC, NEW YORK | 10,474 | 157 | 1,243,676 | 0.0150 | 0.0126% |
| MACQUARIE SECURITIES | 528,301 | 1,870 | 2,366,452 | 0.0035 | 0.0790% |
| MERRILL LYNCH | 1,873,678 | 19,995 | 47,955,380 | 0.0107 | 0.0417% |
| MIZUHO SECURITIES USA INC. NEW YORK | 134,000 | 2,347 | 4,691,627 | 0.0175 | 0.0500% |
| MORGAN STANLEY | 2,658,096 | 36,056 | 72,078,268 | 0.0136 | 0.0500% |
| NATIONAL FINL SVCS CORP, NEW YORK | 110,105 | 1,579 | 3,820,758 | 0.0143 | 0.0413% |
| NESBITT BURNS, TORONTO (NTDT) | 20,812 | 247 | 544,393 | 0.0119 | 0.0454% |
| NOMURA SECURITIES | 26,500 | 372 | 744,797 | 0.0140 | 0.0500% |
| NORDEA BK PLC, HELSINKI (NDEAFIHH030) | 85,275 | 1,878 | 3,192,606 | 0.0220 | 0.0588% |
| NUMIS SECURITIES LTD, LONDON | 50,000 | 2,276 | 1,519,423 | 0.0455 | 0.1498% |
| PAREL, PUTEAUX | 159,754 | 4,219 | 9,402,196 | 0.0264 | 0.0449% |
| RBC CAPITAL MARKETS | 587,718 | 8,883 | 10,284,303 | 0.0151 | 0.0864% |
| SANFORD C BERNSTEIN & CO INC, LONDON | 103,865 | 4,192 | 7,720,487 | 0.0404 | 0.0543% |
| SCOTIA CAPITAL INC, NEW YORK | 14,000 | 58 | 72,893 | 0.0042 | 0.0799% |
| SG SECURITIES, HONG KONG | 28,500 | 257 | 855,269 | 0.0090 | 0.0301% |
| SINGER CAPITAL MARKETS LTD, LONDON | 425,000 | 380 | 542,138 | 0.0009 | 0.0701% |
| TORONTO DOMINION SEC, TORONTO | 3,020 | 12 | 85,787 | 0.0039 | 0.0138% |
| UBS | 661,382 | 8,636 | 18,280,109 | 0.0131 | 0.0472% |
| WILLIAM BLAIR & CO, CHICAGO | 3,903 | 117 | 129,341 | 0.0300 | 0.0905% |
| YUANTA SECURITIES CO., LTD., TAIPEI | 15,000 | 85 | 84,760 | 0.0056 | 0.0999% |
| TOTAL GLOBAL | 37,985,033 | 235,315 | 465,167,409 | 0.0062 | 0.0506% |

Kentucky Public Pensions Authority
Global Equity - Common Stock Commissions
Quarter Ended March 31, 2022

| Broker/Account | Shares Traded | Commission | Value of Trade | Per Share | % Cost of Trade |
|----------------------|-------------------|----------------|--------------------|---------------|-----------------|
| AMERICAN CENTURY | 7,873,838 | 104,490 | 208,209,243 | 0.0133 | 0.0502% |
| FRANKIN TEMPLETON | 11,373,000 | 37,186 | 61,312,186 | 0.0033 | 0.0607% |
| JP MORGAN EMERG MKTS | 2,846,346 | 18,789 | 28,185,353 | 0.0066 | 0.0667% |
| LAZARD ASSET MGMT | 3,604,131 | 46,778 | 119,512,993 | 0.0130 | 0.0391% |
| LSV ASSET MANAGEMENT | 6,369,930 | 7,446 | 14,489,804 | 0.0012 | 0.0514% |
| LSV ASSET MGMT | 3,162,930 | 6,229 | 11,944,000 | 0.0020 | 0.0522% |
| MANULIFE ASSET MGMT | 185,001 | 5,184 | 10,001,778 | 0.0280 | 0.0518% |
| PZENA EMERGING MKTS | 2,569,857 | 9,214 | 11,512,052 | 0.0036 | 0.0800% |
| TOTAL GLOBAL | 37,985,033 | 235,315 | 465,167,409 | 0.0062 | 0.0506% |