

Investment Committee Presentation

Fiscal Year 7/1/2023 - 6/30/2024

January 2025

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# **Presentation Overview**





Introduction to Abel Noser Solutions
Abel Noser Measures Trading for over 300 Asset
Owners and Managers
Our Global Universe comprises over 20 Trillion in
Principal across Asset Classes



**US Equity Trading Review** 

**Artisan Global Value** 

**Cove Street SCV** 

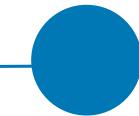


**International Equity** 

**Trading overview** 

**Artisan Global Value** 

**Morgan Stanley** 



**International Small Cap Trading Review** 

**Oberweis** 

**Glossary of Terms** 



#### **Zeno AN Solutions**

Over 30 Years of Industry Leading Analytics

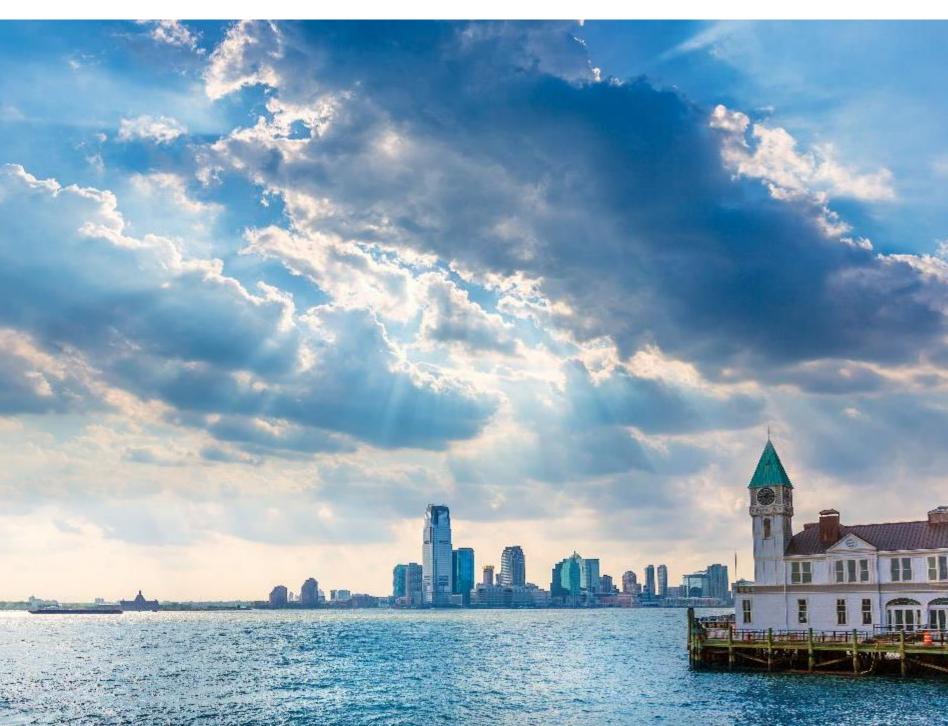
**Zeno AN Solutions** offers the industry's most comprehensive TCA analytics and monitoring solutions for all asset owners including pension funds, mutual funds, insurance companies and endowments.

Our leading TCA and compliance analytics can provide you with the critical transparency, substantive due diligence, and insight into how your managers are handling fund assets. Not only do we provide you with customized metrics so you can control excessive trade costs, we give you the reporting and archiving necessary to mitigate investment and fiduciary risk.

#### **Our Team**

Dedicated, Thorough, Experienced

Our unparalleled team will work as an extension of your staff. Along with market leading product solutions, Zeno AN Solutions continues to be the ultimate client advocate, leveraging our expertise and custom services to help you achieve measurably superior executions, compliance peace-of-mind, and game-changing analytics data. We also offer bespoke data and reporting solutions that can be tailored to your specific set-up, fiduciary make-up or business model.





# San Jose Police and Fire Retirement Plan Fiscal Year US Equity Transaction Cost Analysis Summary Covering the Third Quarter 2023 through the Second Quarter 2024

## **Artisan Global Value and Morgan Stanley International**

Total - Curr	ent Period		Co	mmissio	on Cost				Ex	ecution	Cost / Gain				Tot	al Cost /	/ Gain	
	Shares	Principal					оОр	nStrike C	ost / Gain		οV\	NAP Cos	st / Gain		oVWA	P + Con	nmission	
		(000)	Dollars (000)	BP	¢/Share	Rank	Dollars (000)	BP	¢/Share	Rank	Dollars (000)	BP	¢/Share	Rank	Dollars (000)	BP	¢/Share	Rani
Total	724,923	\$52,666	-\$11	-2.1	-1.56	47%	-\$681	-129.3	-93.97	95%	-\$11	-2.1	-1.51	43%	-\$22	-4.2	-3.07	41%
Buy	340,680	\$23,286	-\$6	-2.5	-1.69	49%	-\$183	-78.8	-53.83	82%	-\$5	-2.1	-1.45	50%	-\$11	-4.6	-3.14	57%
Sell	384,243	\$29,380	-\$6	-1.9	-1.45	44%	-\$498	-169.4	-129.56	95%	-\$6	-2.1	-1.57	37%	-\$12	-3.9	-3.02	37%
Manager 1: Artisan Global Value			Co	mmissio	on Cost				Ex	ecution	Cost / Gain				Tot	al Cost /	/ Gain	
		(000)	Dollars (000)	BP	¢/Share	Rank	Dollars (000)	BP	¢/Share	Rank	Dollars (000)	BP	¢/Share	Rank	Dollars (000)	BP	¢/Share	Rank
Total	411,569	\$36,541	-\$6	-1.7	-1.54	47%	-\$528	-144.6	-128.39	95%	\$27	7.5	6.68	5%	\$21	5.8	5.14	5%
Buy	152,379	\$15,189	-\$3	-1.8	-1.82	59%	-\$53	-34.7	-34.59	70%	\$10	6.4	6.37	15%	\$7	4.6	4.55	13%
Sell	259,190	\$21,353	-\$4	-1.7	-1.37	42%	-\$476	-222.8	-183.54	95%	\$18	8.3	6.86	5%	\$14	6.7	5.49	5%
Manager 2:	Morgan Stanley		Co	mmissio	on Cost				Ex	ecution	Cost / Gain				Tot	al Cost /	/ Gain	
		(000)	Dollars (000)	BP	¢/Share	Rank	Dollars (000)	BP	¢/Share	Rank	Dollars (000)	BP	¢/Share	Rank	Dollars (000)	BP	¢/Share	Rank
Total	313,354	\$16,124	-\$5	-3.1	-1.59	48%	-\$153	-94.8	-48.77	83%	-\$38	-23.8	-12.27	95%	-\$43	-26.9	-13.86	95%
		** **			4 65	4.007	6404	4.04.4	CO 44	mmnz.	Č4E	10.1	-7.77	88%	Ć10	21.0	0.25	87%
Buy	188,301	\$8,097	-\$3	-3.7	-1.58	46%	-\$131	-161.4	-69.41	89%	-\$15	-18.1	-/.//	0076	-\$18	-21.8	-9.35	0/74

## US Results for Artisan and Morgan Stanley for Fiscal Year 2024:

- Total Costs were similar, to 2023 and in the second quartile of universe averages.
- Commissions ranked slightly better than the peer median in Cents Per Share terms.
- Trading was also measured against the Volume Weighted Average Price. US trading performs well against the universe, particularly for Artisan who trades a larger fraction of volume. Despite, higher volatility in 2024, costs to sell securities in US markets was well handled.
- Results were consistent with annual results for the past five years both in absolute terms and against peer universes.



# San Jose Police and Fire Retirement Plan Fiscal Year International Equity Transaction Cost Analysis Summary Covering the Third Quarter 2023 through the Second Quarter 2024

## **Artisan Global Value and Morgan Stanley International**

Total - Curre	ent Period		Commis	ssion Cost				Execution C	lost / Gain			Total (	Cost / Gain	
	Shares	Principal				oOpnStri	ke Cost /Ga	iin	oVWAP	Cost / Gain		oVWAP +	Commission	1
		(000)	Dollars (000)	BP	Rank	Dollars (000)	ВР	Rank	Dollars (000)	BP	Rank	Dollars (000)	BP	Rank
Total	2,823,294	\$128,923	-\$50	-3.9	48%	-\$1,458	-113.1	86%	-\$100	-7.7	65%	-\$150	-11.6	62%
Buy	1,245,786	\$65,423	-\$28	-4.3	50%	-\$394	-60.2	70%	-\$59	-9.1	69%	-\$87	-13.4	65%
Sell	1,577,508	\$63,501	-\$22	-3.5	46%	-\$1,064	-167.6	95%	-\$40	-6.3	58%	-\$62	-9.8	56%
Manager 1: A	Artisan Global Value		Commis	ssion Cost				Execution C	ost / Gain			Total (	Cost / Gain	
		(000)	Dollars (000)	BP	Rank	Dollars (000)	ВР	Rank	Dollars (000)	ВР	Rank	Dollars (000)	BP	Rank
Total	1,623,588	\$74,489	-\$31	-4.1	57%	-\$985	-132.2	91%	-\$27	-3.6	46%	-\$58	-7.8	47%
Buy	789,844	\$36,838	-\$19	-5.0	61%	-\$195	-53.1	66%	-\$29	-8.0	68%	-\$48	-13.0	66%
Sell	833,744	\$37,652	-\$12	-3.3	45%	-\$789	-209.6	95%	\$2	0.7	25%	-\$10	-2.6	25%
Manager 2: N	Morgan Stanley		Commis	ssion Cost				Execution C	ost / Gain			Total (	Cost / Gain	
		(000)	Dollars (000)	ВР	Rank	Dollars (000)	ВР	Rank	Dollars (000)	BP	Rank	Dollars (000)	BP	Rank
Total	1,199,706	\$54,434	-\$19	-3.5	44%	-\$473	-86.9	80%	-\$73	-13.4	77%	-\$92	-16.9	72%
Buy	455,942	\$28,585	-\$10	-3.3	40%	-\$198	-69.3	74%	-\$30	-10.5	70%	-\$40	-13.8	64%
Sell	743.764	\$25.849	-\$10	-3.8	46%	-\$275	-106.4	84%	-\$43	-16.5	78%	-\$52	-20.3	76%

## International Results for Artisan and Morgan Stanley for Fiscal Year 2024:

- Total Costs were similar, to 2023 and in the third quartile of universe averages.
- Commissions ranked slightly better than the peer median in Basis Points terms. Artisan's commissions appeared slightly higher than Morgan Stanley's rates, but commission results for both are still in-line with expectations.
- Trading was also measured against the Volume Weighted Average Price. International trading lags the peer median slightly, but this is expected in an uncertain and volatile environment over the last four quarters. Results for Artisan who trades a larger fraction of volume appeared better than those for Morgan Stanley.
- Results were consistent with annual results for the past five years both in absolute terms and against peer universes.



# San Jose Police and Fire Retirement Plan Fiscal Year Small Cap International Transaction Cost Analysis Summary Covering the Third Quarter 2023 through the Second Quarter 2024

#### **OBERWEIS**

### **Benchmark International Small Cap Growth Universe**

#### **US Summary**

	Shares	Principal	Commission Cost					Total Cost / Gain						
							e Cost /Gair	n	dVWAP	Cost / Gain		dVWAP + Commission		
		(000)	Dollars (000)	CPS	Rank	Dollars (000)	CPS	Rank	Dollars (000)	CPS	Rank	Dollars (000)	CPS	Rank
Total	58,000	\$976	-\$1	-1.6	42%	-\$5	-8.0	48%	-\$2	-3.4	67%	-\$3	-5.0	64%
Buy	18,100	\$357	\$0	-1.9	46%	-\$1	-3.8	41%	\$0	-0.6	37%	\$0	-2.4	36%
Sell	39,900	\$619	-\$1	-1.4	37%	-\$4	-9.9	57%	-\$2	-4.7	69%	-\$2	-6.2	65%

#### **Global Summary**

	Shares	Principal	Commi	Commission Cost			Execution Cost / Gain							
						dOpnStri	nStrike Cost /Gain		dVWAP Cost / Gain			dVWAP +	P + Commission	
		(000)	Dollars (000)	BP	Rank	Dollars (000)	BP	Rank	Dollars (000)	BP	Rank	Dollars (000)	BP	Rank
Total	6,994,770	\$109,423	-\$114	-10.4	43%	-\$1,196	-109.3	72%	-\$144	-13.2	50%	-\$259	-23.6	49%
Buy	3,740,110	\$55,659	-\$61	-11.0	41%	-\$807	-144.9	68%	-\$93	-16.7	50%	-\$154	-27.7	45%
Sell	3,254,660	\$53,764	-\$53	-9.8	41%	-\$389	-72.4	60%	-\$51	-9.6	45%	-\$104	-19.4	42%

### Results for Oberweis for Fiscal Year 2024:

- Total Costs were similar, to 2023 and in-line with universe averages.
- Commissions ranked better than the median of the Abel Noser Solutions peer universe which comprises seventeen trillion dollars worth of trading activity. Commissions for US trading ranked slightly better than the peer median in Cents Per Share terms. Commissions for Global trading also ranked better than the median in Basis Points.
- Trading was also measured against the daily Volume Weighted Average Price. US trading lags the universe slightly while Global trading ranked at the median, this was the result of higher volatility in 2024 particularly for the sells in US Markets.
- Results were slightly elevated as compared with annual results for the past five years both in absolute terms and against peer universes, owing to the higher recent volatility in markets stemming from increased geopolitical tensions and systemic economic issues.



# San Jose Police and Fire Retirement Plan Fiscal Year Equity Transaction Cost Analysis Summary Artisan Global And Morgan Stanley Covering the Third Quarter 2023 through the Second Quarter 2024

#### **US Summary**

**Historical Summary** 

	Shares	Principal	Co	ommissio	on Cost				Exe	ecution	Cost / Gain				Tot	al Cost	/ Gain	
							оОрг	ıStrike C	ost / Gain		οV	WAP Cos	t / Gain		oVW.	AP + Con	nmission	
		(000)	Dollars (000)	BP	¢/Share	Rank	Dollars (000)	BP	¢/Share	Rank	Dollars (000)	BP	¢/Share	Rank	Dollars (000)	BP	¢/Share	Rank
2024 Q2	78,774	\$10,195	-\$1	-1.4	-1.80	59%	-\$60	-59.2	-76.60	95%	\$3	2.6	3.33	5%	\$1	1.2	1.53	6%
2024 Q1	383,966	\$22,502	-\$7	-3.2	-1.89	62%	-\$396	-176.1	-103.18	95%	-\$12	-5.1	-3.01	63%	-\$19	-8.4	-4.91	64%
2023	1,540,216	\$87,140	-\$26	-3.0	-1.67	56%	-\$766	-87.9	-49.70	84%	-\$187	-21.5	-12.15	95%	-\$213	-24.4	-13.82	95%
2022	945,471	\$69,160	-\$18	-2.5	-1.86	61%	-\$497	-71.9	-52.58	85%	\$139	20.1	14.71	5%	\$121	17.6	12.85	5%
2021	966,994	\$135,876	-\$20	-1.5	-2.06	66%	-\$822	-60.5	-84.97	95%	-\$556	-40.9	-57.45	95%	-\$575	-42.3	-59.51	95%
2020	2,124,432	\$139,383	-\$35	-2.5	-1.63	50%	-\$991	-71.1	-46.63	82%	-\$231	-16.5	-10.86	95%	-\$265	-19.0	-12.49	95%
2019	975,129	\$77,457	-\$18	-2.4	-1.88	62%	-\$519	-67.0	-53.23	85%	\$8	1.0	0.81	18%	-\$10	-1.4	-1.07	20%
2018	1,102,369	\$72,243	-\$22	-3.0	-1.97	64%	\$119	16.4	10.75	5%	\$219	30.4	19.91	5%	\$198	27.4	17.93	5%
2017	18,342	\$691	-\$1	-11.5	-4.35	95%	-\$4	-61.7	-23.26	66%	\$1	14.1	5.30	5%	\$0	2.5	0.96	9%

#### **Global Summary**

**Historical Summary** 

	Shares	Principal	Commi	ssion Cost				Execution C	ost / Gain			Total (	ost / Gain	
						oOpnStrik	ce Cost /Ga	in	oVWAP	Cost / Gain		oVWAP +	Commission	1
		(000)	Dollars (000)	BP	Rank	Dollars (000)	BP	Rank	Dollars (000)	BP	Rank	Dollars (000)	BP	Rank
2024 Q2	463,099	\$13,687	-\$9	-6.4	62%	-\$25	-17.9	38%	\$0	0.2	16%	-\$9	-6.2	20%
2024 Q1	498,326	\$23,554	-\$14	-6.1	83%	-\$192	-81.5	93%	-\$20	-8.4	71%	-\$34	-14.5	78%
2023	7,182,824	\$120,369	-\$60	-5.0	21%	-\$78	-6.5	21%	\$98	8.2	7%	\$38	3.1	5%
2022	3,953,240	\$62,271	-\$31	-5.0	20%	\$507	81.3	5%	\$279	44.7	5%	\$248	39.8	5%
2021	5,237,994	\$98,018	-\$59	-6.0	33%	\$74	7.6	17%	\$60	6.1	8%	\$1	0.1	7%
2020	11,513,305	\$85,806	-\$50	-5.8	13%	\$6	0.7	19%	-\$225	-26.2	42%	-\$275	-32.0	24%
2019	1,799,702	\$15,986	-\$13	-8.4	19%	-\$19	-11.8	21%	-\$13	-8.3	22%	-\$27	-16.7	18%
2018	7,004,479	\$57,431	-\$33	-5.8	14%	\$168	29.3	15%	\$58	10.1	11%	\$25	4.3	5%
2017	126,178	\$1,324	-\$1	-10.6	32%	\$3	25.7	15%	\$2	18.8	5%	\$1	8.2	5%



# San Jose Police and Fire Retirement Plan Fiscal Year Equity Transaction Cost Analysis Summary Oberweis Covering the Third Quarter 2023 through the Second Quarter 2024

#### **US Summary**

**Historical Summary** 

	Shares	Principal	Commi	Commission Cost			I		Total Cost / Gain					
						dOpnStrike Cost /Gain			dVWAP Cost / Gain			dVWAP+	Commission	
		(000)	Dollars (000)	BP	Rank	Dollars (000)	BP	Rank	Dollars (000)	CPS	Rank	Dollars (000)	CPS	Rank
2024 Q2	1,200	\$26	\$0	-2.0	57%	\$0	-29.9	83%	\$0	4.8	19%	\$0	2.8	19%
2024 Q1	8,300	\$165	\$0	-2.0	57%	\$0	-1.1	38%	\$0	-4.2	74%	-\$1	-6.2	74%
2023	93,500	\$1,436	-\$1	-1.5	40%	-\$5	-5.4	44%	-\$2	-2.0	49%	-\$3	-3.5	47%
2022	27,700	\$1,894	\$0	-1.2	32%	-\$4	-13.4	64%	\$0	1.2	24%	\$0	0.0	23%
2021	70,100	\$6,567	-\$1	-1.3	35%	-\$102	-145.9	95%	\$2	2.8	22%	\$1	1.5	21%
2020	45,000	\$1,551	-\$1	-1.7	44%	\$2	4.8	25%	-\$5	-11.6	95%	-\$6	-13.3	94%
		-				-\$102 \$2			\$2 -\$5			-\$6	5	

#### **Global Summary**

**Historical Summary** 

	Shares	Principal	Commi	ssion Cost			I	Execution C		Total Cost / Gain				
						dOpnStri	ke Cost /Gair	1	dVWAP	Cost / Gain	dVWAP +	Commission	n	
		(000)	Dollars (000)	BP	Rank	Dollars (000)	BP	Rank	Dollars (000)	BP	Rank	Dollars (000)	BP	Rank
2024 Q2	1,835,400	\$22,114	-\$22	-10.1	33%	-\$221	-99.8	61%	-\$55	-24.7	63%	-\$77	-34.7	58%
2024 Q1	2,421,510	\$37,745	-\$40	-10.6	43%	-\$486	-128.9	76%	-\$54	-14.2	56%	-\$93	-24.8	50%
2023	8,435,573	\$122,441	-\$124	-10.1	39%	-\$1,310	-107.0	69%	-\$156	-12.7	48%	-\$279	-22.8	46%
2022	5,802,621	\$77,601	-\$80	-10.3	37%	-\$1,138	-146.7	76%	-\$139	-18.0	58%	-\$220	-28.3	49%
2021	7,963,346	\$127,361	-\$129	-10.2	43%	-\$2,032	-159.6	80%	-\$182	-14.3	57%	-\$312	-24.5	55%
2020	2,545,193	\$30,506	-\$39	-12.8	40%	-\$734	-240.5	83%	-\$126	-41.2	77%	-\$165	-54.0	75%



## Glossary of Metrics

**d:** Trade day measure

**o:** Order length measure

**/K:** U.S. dollars in thousands

**BP:** Basis Points

**/CPS:** Cents per Share

**OpenStrike:** This measure compares your execution price to the price at market open on the trade date (d) or the first day of the order (o)

**VWAP:** Volume Weighted Average Price: Total Principal traded divided by the number of shares for a specific period – Trade Day (d) or Order Length (o).

**Total Cost:** Commission plus execution gain/loss to the VWAP.