

# BNY Mellon New Jersey Municipal Bond Fund, Inc.

## **ANNUAL FINANCIALS AND OTHER INFORMATION**

December 31, 2024

<b>Class</b>	<b>Ticker</b>
A	DRNJX
C	DCNJX
I	DNMIX
Y	DNJYX
Z	DZSJX

## IMPORTANT NOTICE – CHANGES TO ANNUAL AND SEMI-ANNUAL REPORTS

The Securities and Exchange Commission (the “SEC”) has adopted rule and form amendments which have resulted in changes to the design and delivery of annual and semi-annual fund reports (“Reports”). Reports are now streamlined to highlight key information. Certain information previously included in Reports, including financial statements, no longer appear in the Reports but will be available online within the Semi-Annual and Annual Financials and Other Information, delivered free of charge to shareholders upon request, and filed with the SEC.

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Not FDIC-Insured • Not Bank-Guaranteed • May Lose Value
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## THE FUND

Please note the Annual Financials and Other Information only contains Items 7-11 required in Form N-CSR. All other required items will be filed with the SEC.

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Item 7. Financial Statements and Financial Highlights for Open-End Management Investment Companies.

BNY Mellon New Jersey Municipal Bond Fund, Inc.  
Statement of Investments

December 31, 2024

Description	Coupon Rate (%)	Maturity Date	Principal Amount (\$)	Value (\$)
<b>Long-Term Municipal Investments — 98.7%</b>				
<b>Delaware — .3%</b>				
Delaware River & Bay Authority, Revenue Bonds, Refunding, Ser. B	5.00	1/1/2039	500,000	556,803
Delaware River & Bay Authority, Revenue Bonds, Refunding, Ser. B	5.00	1/1/2040	500,000	554,182
				<b>1,110,985</b>
<b>New Jersey — 88.1%</b>				
Casino Reinvestment Development Authority, Inc., Revenue Bonds, Refunding (Insured; ACE Guaranty Corp.) Ser. A	4.00	11/1/2044	1,500,000	1,427,606
East Orange Board Of Education, COP (Insured; Assured Guaranty Municipal Corp.) <sup>(a)</sup>	0.00	2/1/2026	745,000	716,304
East Orange Board Of Education, COP (Insured; Assured Guaranty Municipal Corp.) <sup>(a)</sup>	0.00	2/1/2028	2,245,000	2,002,759
Edison, GO, Refunding	3.00	3/15/2033	1,365,000	1,295,693
Essex County Improvement Authority, Revenue Bonds (Sustainable Bond)	4.00	6/15/2056	4,560,000	4,106,582
Garden Preservation Trust, Revenue Bonds (Insured; Assured Guaranty Municipal Corp.) Ser. A	5.75	11/1/2028	2,220,000	2,349,070
Hudson County Improvement Authority, Revenue Bonds	5.00	5/1/2046	2,500,000	2,529,923
Hudson County Improvement Authority, Revenue Bonds (Insured; National Public Finance Guarantee Corp.) Ser. A1 <sup>(a)</sup>	0.00	12/15/2034	3,000,000	2,014,390
Hudson County Improvement Authority, Revenue Bonds, Refunding (Insured; County Guaranteed)	4.00	1/1/2036	1,250,000	1,269,364
Hudson County Improvement Authority, Revenue Bonds, Refunding (Insured; County Guaranteed)	4.00	1/1/2037	2,000,000	2,026,039
Jersey Redevelopment Agency, Revenue Bonds (Bayfront Redevelopment Project) (Insured; Municipal Government Guaranteed)	4.00	12/15/2031	5,000,000	5,226,195
Middlesex County Improvement Authority, Revenue Bonds (Rutgers University)	5.00	8/15/2053	4,000,000	4,287,711
New Brunswick Parking Authority, Revenue Bonds, Refunding (Insured; Build America Mutual) Ser. A	5.00	9/1/2035	2,000,000	2,040,769
New Jersey Economic Development Authority, Revenue Bonds (Beloved Community Charter School Project) Ser. A <sup>(b)</sup>	5.00	6/15/2049	1,105,000	1,102,403
New Jersey Economic Development Authority, Revenue Bonds (Beloved Community Charter School Project) Ser. A <sup>(b)</sup>	5.00	6/15/2054	725,000	719,455
New Jersey Economic Development Authority, Revenue Bonds (Charter Foundation Academy Charter School Project) Ser. A	5.00	7/1/2050	1,000,000	974,539
New Jersey Economic Development Authority, Revenue Bonds (The Goethals)	5.38	1/1/2043	3,500,000	3,502,196
New Jersey Economic Development Authority, Revenue Bonds, Refunding (New Jersey Natural Gas Company Project) <sup>(c)</sup>	2.45	4/1/2026	2,250,000	2,213,390
New Jersey Economic Development Authority, Revenue Bonds, Refunding (New Jersey Natural Gas Company Project)	3.00	8/1/2043	3,500,000	2,745,087
New Jersey Economic Development Authority, Revenue Bonds, Refunding (New Jersey Natural Gas Company Project)	3.50	4/1/2042	2,000,000	1,705,546
New Jersey Economic Development Authority, Revenue Bonds, Refunding (New Jersey-American Water Co.) <sup>(c)</sup>	3.75	6/1/2028	500,000	498,647
New Jersey Economic Development Authority, Revenue Bonds, Refunding (New Jersey-American Water Co.) Ser. A <sup>(c)</sup>	2.20	12/3/2029	3,000,000	2,638,889
New Jersey Economic Development Authority, Revenue Bonds, Refunding (Port Newark Container Terminal)	5.00	10/1/2047	6,000,000	6,053,146

Statement of Investments (continued)

Description	Coupon Rate (%)	Maturity Date	Principal Amount (\$)	Value (\$)
<b>Long-Term Municipal Investments — 98.7% (continued)</b>				
<b>New Jersey — 88.1% (continued)</b>				
New Jersey Economic Development Authority, Revenue Bonds, Refunding (Provident Group-Montclair Properties) (Insured; Assured Guaranty Municipal Corp.)	5.00	6/1/2042	1,000,000	1,016,318
New Jersey Economic Development Authority, Revenue Bonds, Refunding, Ser. A	5.00	7/1/2033	945,000	956,344
New Jersey Educational Facilities Authority, Revenue Bonds (Insured; Assured Guaranty Municipal Corp.) Ser. C	4.00	7/1/2050	1,000,000	954,979
New Jersey Educational Facilities Authority, Revenue Bonds (Sustainable Bond) Ser. A	4.00	7/1/2050	3,000,000	2,780,799
New Jersey Educational Facilities Authority, Revenue Bonds, Ser. A	4.63	9/1/2048	2,500,000	2,564,225
New Jersey Educational Facilities Authority, Revenue Bonds, Refunding (Ramapo College of New Jersey) (Insured; Assured Guaranty Municipal Corp.) Ser. A	4.00	7/1/2052	650,000	621,587
New Jersey Educational Facilities Authority, Revenue Bonds, Refunding (Ramapo College of New Jersey) (Insured; Assured Guaranty Municipal Corp.) Ser. A	5.00	7/1/2034	1,000,000	1,037,781
New Jersey Educational Facilities Authority, Revenue Bonds, Refunding (Stockton University) (Insured; Assured Guaranty Municipal Corp.) Ser. A	5.00	7/1/2035	1,600,000	1,629,843
New Jersey Educational Facilities Authority, Revenue Bonds, Refunding (The College of New Jersey) Ser. F	4.00	7/1/2035	1,365,000	1,366,616
New Jersey Educational Facilities Authority, Revenue Bonds, Refunding (The William Paterson University) Ser. C	5.00	7/1/2029	2,130,000	2,147,804
New Jersey Educational Facilities Authority, Revenue Bonds, Refunding (The William Paterson University) (Insured; Build America Mutual) Ser. E	5.00	7/1/2030	2,025,000	2,079,691
New Jersey Educational Facilities Authority, Revenue Bonds, Refunding, Ser. C	5.00	7/1/2030	2,255,000	2,273,813
New Jersey Health Care Facilities Financing Authority, Revenue Bonds (AtlantiCare Health System Obligated Group)	4.00	7/1/2035	750,000	767,123
New Jersey Health Care Facilities Financing Authority, Revenue Bonds (Inspira Health Obligated Group)	5.00	7/1/2042	3,500,000	3,573,282
New Jersey Health Care Facilities Financing Authority, Revenue Bonds (RWJ Barnabas Health Obligated Group)	4.00	7/1/2051	9,000,000	8,701,131
New Jersey Health Care Facilities Financing Authority, Revenue Bonds (RWJ Barnabas Health Obligated Group) Ser. A	4.25	7/1/2054	1,000,000	1,011,484
New Jersey Health Care Facilities Financing Authority, Revenue Bonds (Valley Health System Obligated Group)	4.00	7/1/2035	1,000,000	1,018,646
New Jersey Health Care Facilities Financing Authority, Revenue Bonds (Valley Health System Obligated Group)	5.00	7/1/2034	2,000,000	2,131,217
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding (AHS Hospital Corp.)	4.00	7/1/2041	7,500,000	7,433,477
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding (Hackensack Meridian Health Obligated Group) Ser. A	5.00	7/1/2039	1,500,000	1,541,118
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding (Inspira Health Obligated Group) Ser. A	4.13	7/1/2054	2,565,000	2,447,939
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding (Inspira Health Obligated Group) Ser. A	5.25	7/1/2049	2,940,000	3,218,363

Description	Coupon Rate (%)	Maturity Date	Principal Amount (\$)	Value (\$)
<b>Long-Term Municipal Investments — 98.7% (continued)</b>				
<b>New Jersey — 88.1% (continued)</b>				
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding (Princeton Healthcare System)	5.00	7/1/2039	2,000,000	2,032,327
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding (RWJ Barnabas Health Obligated Group) Ser. A	4.00	7/1/2043	2,360,000	2,327,631
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding (RWJ Barnabas Health Obligated Group) Ser. A	5.00	7/1/2043	3,500,000	3,540,141
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding (RWJ Barnabas Health Obligated Group) Ser. B3 <sup>(c)</sup>	5.00	7/1/2026	6,000,000	6,136,625
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding (St. Joseph's Healthcare System Obligated Group)	5.00	7/1/2036	2,790,000	2,821,104
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding (St. Joseph's Healthcare System Obligated Group)	5.00	7/1/2041	1,000,000	1,006,608
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding (University Hospital) (Insured; Assured Guaranty Municipal Corp.) Ser. A	5.00	7/1/2046	2,000,000	2,003,896
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding, Ser. A	4.00	7/1/2041	3,250,000	3,190,519
New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Refunding, Ser. A	5.00	7/1/2046	3,000,000	3,028,553
New Jersey Higher Education Student Assistance Authority, Revenue Bonds, Ser. 1A	5.00	12/1/2027	1,050,000	1,074,865
New Jersey Higher Education Student Assistance Authority, Revenue Bonds, Ser. B	4.00	12/1/2044	3,000,000	2,826,745
New Jersey Higher Education Student Assistance Authority, Revenue Bonds, Ser. B	4.25	12/1/2045	1,000,000	978,194
New Jersey Higher Education Student Assistance Authority, Revenue Bonds, Ser. B	5.00	12/1/2028	1,450,000	1,514,491
New Jersey Higher Education Student Assistance Authority, Revenue Bonds, Ser. C	5.25	12/1/2054	2,000,000	2,003,018
New Jersey Higher Education Student Assistance Authority, Revenue Bonds, Refunding, Ser. B	5.00	12/1/2030	1,575,000	1,666,226
New Jersey Higher Education Student Assistance Authority, Revenue Bonds, Refunding, Ser. C	3.63	12/1/2049	2,750,000	2,173,669
New Jersey Housing & Mortgage Finance Agency, Revenue Bonds (Sustainable Bond) Ser. A	4.55	5/1/2055	810,000	811,104
New Jersey Housing & Mortgage Finance Agency, Revenue Bonds (Sustainable Bond) Ser. E1	4.55	5/1/2055	1,400,000	1,401,908
New Jersey Housing & Mortgage Finance Agency, Revenue Bonds (Sustainable Bond) Ser. H	5.00	4/1/2028	325,000	340,699
New Jersey Housing & Mortgage Finance Agency, Revenue Bonds (Sustainable Bond) Ser. H	5.00	10/1/2028	485,000	511,656
New Jersey Housing & Mortgage Finance Agency, Revenue Bonds, Refunding, Ser. A	3.75	10/1/2035	1,235,000	1,193,920
New Jersey Infrastructure Bank, Revenue Bonds (Sustainable Bond)	3.00	9/1/2038	3,075,000	2,770,100
New Jersey Transportation Trust Fund Authority, Revenue Bonds	5.00	6/15/2046	1,820,000	1,868,572
New Jersey Transportation Trust Fund Authority, Revenue Bonds <sup>(d)</sup>	5.50	12/15/2032	4,020,000	4,733,618
New Jersey Transportation Trust Fund Authority, Revenue Bonds (Insured; Build America Mutual) Ser. A <sup>(a)</sup>	0.00	12/15/2028	12,000,000	10,520,378

Statement of Investments (continued)

Description	Coupon Rate (%)	Maturity Date	Principal Amount (\$)	Value (\$)
<b>Long-Term Municipal Investments — 98.7% (continued)</b>				
<b>New Jersey — 88.1% (continued)</b>				
New Jersey Transportation Trust Fund Authority, Revenue Bonds (Insured; Build America Mutual) Ser. A <sup>(a)</sup>	0.00	12/15/2038	6,330,000	3,635,662
New Jersey Transportation Trust Fund Authority, Revenue Bonds, Ser. AA	3.00	6/15/2050	5,000,000	3,857,021
New Jersey Transportation Trust Fund Authority, Revenue Bonds, Ser. AA	4.00	6/15/2045	1,450,000	1,401,885
New Jersey Transportation Trust Fund Authority, Revenue Bonds, Ser. AA <sup>(d)</sup>	5.00	12/15/2030	325,000	360,126
New Jersey Transportation Trust Fund Authority, Revenue Bonds, Ser. B	5.00	6/15/2032	1,725,000	1,900,735
New Jersey Transportation Trust Fund Authority, Revenue Bonds, Ser. BB	4.00	6/15/2046	1,000,000	965,208
New Jersey Transportation Trust Fund Authority, Revenue Bonds, Ser. CC	4.13	6/15/2055	6,000,000	5,772,087
New Jersey Transportation Trust Fund Authority, Revenue Bonds, Ser. CC	5.25	6/15/2055	3,000,000	3,241,049
New Jersey Transportation Trust Fund Authority, Revenue Bonds, Refunding, Ser. AA	5.00	6/15/2037	1,500,000	1,654,852
New Jersey Transportation Trust Fund Authority, Revenue Bonds, Refunding, Ser. AA	5.00	6/15/2042	17,000,000	18,618,680
New Jersey Transportation Trust Fund Authority, Revenue Bonds, Refunding, Ser. AA	5.25	6/15/2041	1,000,000	1,120,236
New Jersey Turnpike Authority, Revenue Bonds, Ser. A	4.00	1/1/2042	9,000,000	9,014,965
New Jersey Turnpike Authority, Revenue Bonds, Ser. A	4.00	1/1/2048	5,000,000	4,945,154
New Jersey Turnpike Authority, Revenue Bonds, Ser. A1	5.00	1/1/2035	1,500,000	1,542,311
New Jersey Turnpike Authority, Revenue Bonds, Ser. B	4.13	1/1/2054	2,000,000	2,000,093
New Jersey Turnpike Authority, Revenue Bonds, Refunding, Ser. B	5.00	1/1/2040	1,000,000	1,039,425
New Jersey Turnpike Authority, Revenue Bonds, Refunding, Ser. G	5.00	1/1/2035	1,000,000	1,047,704
Ocean County, GO, Ser. A	3.00	8/1/2033	2,145,000	2,040,399
South Jersey Port Corp., Revenue Bonds, Ser. B	5.00	1/1/2042	4,300,000	4,365,720
South Jersey Port Corp., Revenue Bonds, Ser. B	5.00	1/1/2048	2,830,000	2,851,450
South Jersey Transportation Authority, Revenue Bonds	4.63	11/1/2047	3,000,000	3,065,308
South Jersey Transportation Authority, Revenue Bonds, Ser. A	4.00	11/1/2050	1,000,000	936,995
The Atlantic County Improvement Authority, Revenue Bonds (Stockton University) (Insured; Assured Guaranty Municipal Corp.) Ser. A	5.00	7/1/2048	3,000,000	3,029,274
The Camden County Improvement Authority, Revenue Bonds, Refunding (Rowan University Foundation Project) (Insured; Build America Mutual) Ser. A	5.00	7/1/2035	5,165,000	5,574,121
The Gloucester County Improvement Authority, Revenue Bonds (Rowan University Project) (Insured; Build America Mutual)	4.00	7/1/2046	725,000	704,954
The Gloucester County Improvement Authority, Revenue Bonds (Rowan University Project) (Insured; Build America Mutual)	4.00	7/1/2051	1,200,000	1,147,205
The Gloucester County Improvement Authority, Revenue Bonds (Rowan University Project) (Insured; Build America Mutual)	5.00	7/1/2054	700,000	740,482
The Rahway Valley Sewerage Authority, Revenue Bonds (Insured; National Public Finance Guarantee Corp.) Ser. A <sup>(a)</sup>	0.00	9/1/2030	7,550,000	6,171,697
Tobacco Settlement Financing Corp., Revenue Bonds, Refunding, Ser. A	5.00	6/1/2046	7,045,000	7,158,393
Tobacco Settlement Financing Corp., Revenue Bonds, Refunding, Ser. A	5.25	6/1/2046	3,850,000	3,947,014
Tobacco Settlement Financing Corp., Revenue Bonds, Refunding, Ser. B	5.00	6/1/2046	4,660,000	4,659,795
Union County Improvement Authority, Revenue Bonds (Union County Administration Complex Project) (Insured; County Guaranteed)	4.13	4/15/2054	1,700,000	1,703,641
				<b>277,409,491</b>
<b>New York — 7.8%</b>				
Port Authority of New York & New Jersey, Revenue Bonds, Ser. 218	5.00	11/1/2049	6,900,000	7,042,184

Description	Coupon Rate (%)	Maturity Date	Principal Amount (\$)	Value (\$)
<b>Long-Term Municipal Investments — 98.7% (continued)</b>				
<b>New York — 7.8% (continued)</b>				
Port Authority of New York & New Jersey, Revenue Bonds, Ser. 93rd	6.13	6/1/2094	3,000,000	3,003,926
Port Authority of New York & New Jersey, Revenue Bonds, Refunding	4.00	9/1/2038	2,000,000	2,024,319
Port Authority of New York & New Jersey, Revenue Bonds, Refunding, Ser. 197	5.00	11/15/2033	7,000,000	7,116,395
Port Authority of New York & New Jersey, Revenue Bonds, Refunding, Ser. 223	4.00	7/15/2061	5,000,000	4,519,585
Port Authority of New York & New Jersey, Revenue Bonds, Refunding, Ser. 236	5.00	1/15/2052	1,000,000	1,041,197
				<b>24,747,606</b>
<b>Pennsylvania — 1.6%</b>				
Delaware River Joint Toll Bridge Commission, Revenue Bonds	5.00	7/1/2037	2,500,000	2,598,863
Delaware River Joint Toll Bridge Commission, Revenue Bonds, Refunding, Ser. B	5.00	7/1/2032	1,000,000	1,081,836
Delaware River Port Authority, Revenue Bonds, Ser. A	5.00	1/1/2038	1,200,000	1,276,006
				<b>4,956,705</b>
<b>U.S. Related — .9%</b>				
Guam Government Waterworks Authority, Revenue Bonds, Refunding, Ser. A	5.00	7/1/2045	1,000,000	1,052,976
Puerto Rico, GO, Ser. A1	5.63	7/1/2027	1,000,000	1,036,705
Puerto Rico, GO, Ser. A1	5.63	7/1/2029	650,000	692,781
				<b>2,782,462</b>
<b>Total Investments</b> (cost \$318,915,719)			<b>98.7%</b>	<b>311,007,249</b>
<b>Cash and Receivables (Net)</b>			<b>1.3%</b>	<b>3,944,764</b>
<b>Net Assets</b>			<b>100.0%</b>	<b>314,952,013</b>

COP—Certificate of Participation

GO—Government Obligation

<sup>(a)</sup> Security issued with a zero coupon. Income is recognized through the accretion of discount.

<sup>(b)</sup> Security exempt from registration pursuant to Rule 144A under the Securities Act of 1933. These securities may be resold in transactions exempt from registration, normally to qualified institutional buyers. At December 31, 2024, these securities amounted to \$1,821,858 or 0.6% of net assets.

<sup>(c)</sup> These securities have a put feature; the date shown represents the put date and the bond holder can take a specific action to retain the bond after the put date.

<sup>(d)</sup> These securities are prerefunded; the date shown represents the prerefunded date. Bonds which are prerefunded are collateralized by U.S. Government securities which are held in escrow and are used to pay principal and interest on the municipal issue and to retire the bonds in full at the earliest refunding date.

See notes to financial statements.



# STATEMENT OF ASSETS AND LIABILITIES

December 31, 2024

	Cost	Value
<b>Assets (\$):</b>		
Investments in securities—See Statement of Investments	318,915,719	311,007,249
Cash		303,292
Interest receivable		3,918,361
Receivable for shares of Common Stock subscribed		75,518
Prepaid expenses		46,591
		<b>315,351,011</b>
<b>Liabilities (\$):</b>		
Due to BNY Mellon Investment Adviser, Inc. and affiliates—Note 3(c)		192,296
Payable for shares of Common Stock redeemed		123,307
Directors' fees and expenses payable		1,882
Other accrued expenses		81,513
		<b>398,998</b>
<b>Net Assets (\$)</b>		<b>314,952,013</b>
<b>Composition of Net Assets (\$):</b>		
Paid-in capital		323,844,504
Total distributable earnings (loss)		(8,892,491)
<b>Net Assets (\$)</b>		<b>314,952,013</b>

Net Asset Value Per Share	Class A	Class C	Class I	Class Y	Class Z
Net Assets (\$)	232,614,474	307,474	18,532,483	926.01	63,496,656
Shares Outstanding	19,750,512	26,136	1,573,476	78.31	5,390,884
<b>Net Asset Value Per Share (\$)</b>	<b>11.78</b>	<b>11.76</b>	<b>11.78</b>	<b>11.82</b>	<b>11.78</b>

See notes to financial statements.

## STATEMENT OF OPERATIONS

Year Ended December 31, 2024

<b>Investment Income (\$):</b>	
<b>Interest Income</b>	<b>11,097,960</b>
<b>Expenses:</b>	
Management fee—Note 3(a)	1,437,369
Shareholder servicing costs—Note 3(c)	767,272
Professional fees	109,187
Registration fees	71,442
Directors' fees and expenses—Note 3(d)	31,228
Prospectus and shareholders' reports	20,295
Chief Compliance Officer fees—Note 3(c)	19,576
Custodian fees—Note 3(c)	7,399
Loan commitment fees—Note 2	6,890
Distribution fees—Note 3(b)	3,164
Miscellaneous	42,899
<b>Total Expenses</b>	<b>2,516,721</b>
Less—reduction in expenses due to undertaking—Note 3(a)	(1,161)
Less—reduction in fees due to earnings credits—Note 3(c)	(23,964)
<b>Net Expenses</b>	<b>2,491,596</b>
<b>Net Investment Income</b>	<b>8,606,364</b>
<b>Realized and Unrealized Gain (Loss) on Investments—Note 4 (\$):</b>	
Net realized gain (loss) on investments	(654,762)
Net change in unrealized appreciation (depreciation) on investments	(2,768,909)
<b>Net Realized and Unrealized Gain (Loss) on Investments</b>	<b>(3,423,671)</b>
<b>Net Increase in Net Assets Resulting from Operations</b>	<b>5,182,693</b>

*See notes to financial statements.*

## STATEMENT OF CHANGES IN NET ASSETS

	Year Ended December 31,	
	2024	2023
<b>Operations (\$):</b>		
Net investment income	8,606,364	8,950,968
Net realized gain (loss) on investments	(654,762)	(121,982)
Net change in unrealized appreciation (depreciation) on investments	(2,768,909)	10,759,249
<b>Net Increase (Decrease) in Net Assets Resulting from Operations</b>	<b>5,182,693</b>	<b>19,588,235</b>
<b>Distributions (\$):</b>		
Distributions to shareholders:		
Class A	(6,207,494)	(6,483,909)
Class C	(7,932)	(12,229)
Class I	(556,345)	(541,683)
Class Y	(28)	(27)
Class Z	(1,825,960)	(1,965,896)
<b>Total Distributions</b>	<b>(8,597,759)</b>	<b>(9,003,744)</b>
<b>Capital Stock Transactions (\$):</b>		
Net proceeds from shares sold:		
Class A	15,125,144	5,164,375
Class C	8,200	-
Class I	5,107,191	4,240,739
Class Z	2,737,690	1,505,931
Distributions reinvested:		
Class A	4,898,537	5,117,622
Class C	7,920	12,225
Class I	555,479	541,231
Class Z	1,502,013	1,602,373
Cost of shares redeemed:		
Class A	(25,925,069)	(30,972,022)
Class C	(277,716)	(151,815)
Class I	(5,983,102)	(4,526,044)
Class Z	(7,607,137)	(10,316,337)
<b>Increase (Decrease) in Net Assets from Capital Stock Transactions</b>	<b>(9,850,850)</b>	<b>(27,781,722)</b>
<b>Total Increase (Decrease) in Net Assets</b>	<b>(13,265,916)</b>	<b>(17,197,231)</b>
<b>Net Assets (\$):</b>		
Beginning of Period	328,217,929	345,415,160
<b>End of Period</b>	<b>314,952,013</b>	<b>328,217,929</b>

	Year Ended December 31,	
	2024	2023
<b>Capital Share Transactions (Shares):</b>		
<b>Class A<sup>(a)</sup></b>		
Shares sold	1,276,631	447,309
Shares issued for distributions reinvested	415,142	442,058
Shares redeemed	(2,195,344)	(2,666,438)
<b>Net Increase (Decrease) in Shares Outstanding</b>	<b>(503,571)</b>	<b>(1,777,071)</b>
<b>Class C</b>		
Shares sold	697	-
Shares issued for distributions reinvested	672	1,057
Shares redeemed	(23,733)	(13,261)
<b>Net Increase (Decrease) in Shares Outstanding</b>	<b>(22,364)</b>	<b>(12,204)</b>
<b>Class I<sup>(a)</sup></b>		
Shares sold	432,054	364,638
Shares issued for distributions reinvested	47,083	46,760
Shares redeemed	(506,398)	(391,313)
<b>Net Increase (Decrease) in Shares Outstanding</b>	<b>(27,261)</b>	<b>20,085</b>
<b>Class Z</b>		
Shares sold	231,619	128,718
Shares issued for distributions reinvested	127,297	138,379
Shares redeemed	(645,305)	(889,864)
<b>Net Increase (Decrease) in Shares Outstanding</b>	<b>(286,389)</b>	<b>(622,767)</b>

<sup>(a)</sup> During the period ended December 31, 2024, 20,644 Class A shares representing \$244,152 were exchanged for 20,656 Class I shares.

See notes to financial statements.

## FINANCIAL HIGHLIGHTS

The following tables describe the performance for each share class for the fiscal periods indicated. All information (except portfolio turnover rate) reflects financial results for a single fund share. Net asset value total return is calculated assuming an initial investment made at the net asset value at the beginning of the period, reinvestment of all dividends and distributions at net asset value during the period, and redemption at net asset value on the last day of the period. Net asset value total return includes adjustments in accordance with accounting principles generally accepted in the United States of America and as such, the net asset value for financial reporting purposes and the returns based upon those net asset values may differ from the net asset value and returns for shareholder transactions.

Class A Shares	Year Ended December 31,				
	2024	2023	2022	2021	2020
<b>Per Share Data (\$):</b>					
Net asset value, beginning of period	11.90	11.52	13.06	13.14	12.95
Investment Operations:					
Net investment income <sup>(a)</sup>	.31	.30	.29	.29	.32
Net realized and unrealized gain (loss) on investments	(.12)	.38	(1.51)	(.08)	.21
Total from Investment Operations	.19	.68	(1.22)	.21	.53
Distributions:					
Dividends from net investment income	(.31)	(.30)	(.29)	(.29)	(.32)
Dividends from net realized gain on investments	(.00) <sup>(b)</sup>	-	(.03)	-	(.02)
Total Distributions	(.31)	(.30)	(.32)	(.29)	(.34)
Net asset value, end of period	11.78	11.90	11.52	13.06	13.14
<b>Total Return (%)<sup>(c)</sup></b>	<b>1.64</b>	<b>6.04</b>	<b>(9.41)</b>	<b>1.60</b>	<b>4.15</b>
<b>Ratios/Supplemental Data (%):</b>					
Ratio of total expenses to average net assets	.83	.90	.96	.95	.95
Ratio of net expenses to average net assets	.83	.83	.85	.85	.85
Ratio of net investment income to average net assets	2.65	2.60	2.42	2.21	2.46
Portfolio Turnover Rate	20.81	13.02	8.56	10.36	14.13
<b>Net Assets, end of period (\$ x 1,000)</b>	<b>232,614</b>	<b>241,026</b>	<b>253,884</b>	<b>310,130</b>	<b>321,410</b>

<sup>(a)</sup> Based on average shares outstanding.

<sup>(b)</sup> Amount represents less than \$.01 per share.

<sup>(c)</sup> Exclusive of sales charge.

See notes to financial statements.

Class C Shares	Year Ended December 31,				
	2024	2023	2022	2021	2020
<b>Per Share Data (\$):</b>					
Net asset value, beginning of period	11.89	11.51	13.05	13.13	12.93
Investment Operations:					
Net investment income <sup>(a)</sup>	.22	.21	.19	.19	.22
Net realized and unrealized gain (loss) on investments	(.13)	.38	(1.50)	(.08)	.22
Total from Investment Operations	.09	.59	(1.31)	.11	.44
Distributions:					
Dividends from net investment income	(.22)	(.21)	(.20)	(.19)	(.22)
Dividends from net realized gain on investments	(.00) <sup>(b)</sup>	-	(.03)	-	(.02)
Total Distributions	(.22)	(.21)	(.23)	(.19)	(.24)
Net asset value, end of period	11.76	11.89	11.51	13.05	13.13
<b>Total Return (%)<sup>(c)</sup></b>	.77	5.24	(10.10)	.84	3.45
<b>Ratios/Supplemental Data (%):</b>					
Ratio of total expenses to average net assets	1.88	1.85	1.92	1.84	1.79
Ratio of net expenses to average net assets	1.59	1.58	1.60	1.60	1.60
Ratio of net investment income to average net assets	1.87	1.84	1.65	1.46	1.74
Portfolio Turnover Rate	20.81	13.02	8.56	10.36	14.13
<b>Net Assets, end of period (\$ x 1,000)</b>	307	577	699	1,035	1,707

<sup>(a)</sup> Based on average shares outstanding.

<sup>(b)</sup> Amount represents less than \$.01 per share.

<sup>(c)</sup> Exclusive of sales charge.

See notes to financial statements.

FINANCIAL HIGHLIGHTS (continued)

Class I Shares	Year Ended December 31,				
	2024	2023	2022	2021	2020
<b>Per Share Data (\$):</b>					
Net asset value, beginning of period	11.90	11.52	13.06	13.14	12.95
Investment Operations:					
Net investment income <sup>(a)</sup>	.34	.33	.32	.32	.35
Net realized and unrealized gain (loss) on investments	(.12)	.38	(1.51)	(.08)	.21
Total from Investment Operations	.22	.71	(1.19)	.24	.56
Distributions:					
Dividends from net investment income	(.34)	(.33)	(.32)	(.32)	(.35)
Dividends from net realized gain on investments	(.00) <sup>(b)</sup>	-	(.03)	-	(.02)
Total Distributions	(.34)	(.33)	(.35)	(.32)	(.37)
Net asset value, end of period	11.78	11.90	11.52	13.06	13.14
<b>Total Return (%)</b>	<b>1.88</b>	<b>6.30</b>	<b>(9.18)</b>	<b>1.85</b>	<b>4.41</b>
<b>Ratios/Supplemental Data (%):</b>					
Ratio of total expenses to average net assets	.60	.66	.72	.72	.72
Ratio of net expenses to average net assets	.59	.58	.60	.60	.60
Ratio of net investment income to average net assets	2.88	2.84	2.66	2.45	2.71
Portfolio Turnover Rate	20.81	13.02	8.56	10.36	14.13
<b>Net Assets, end of period (\$ x 1,000)</b>	<b>18,532</b>	<b>19,049</b>	<b>18,216</b>	<b>18,535</b>	<b>17,419</b>

<sup>(a)</sup> Based on average shares outstanding.

<sup>(b)</sup> Amount represents less than \$.01 per share.

See notes to financial statements.

Class Y Shares	Year Ended December 31,				
	2024	2023	2022	2021	2020
<b>Per Share Data (\$):</b>					
Net asset value, beginning of period	11.95	11.57	13.11	13.19	13.00
Investment Operations:					
Net investment income <sup>(a)</sup>	.36	.34	.32	.32	.35
Net realized and unrealized gain (loss) on investments	(.13)	.38	(1.51)	(.08)	.20
Total from Investment Operations	.23	.72	(1.19)	.24	.55
Distributions:					
Dividends from net investment income	(.36)	(.34)	(.32)	(.32)	(.34)
Dividends from net realized gain on investments	(.00) <sup>(b)</sup>	-	(.03)	-	(.02)
Total Distributions	(.36)	(.34)	(.35)	(.32)	(.36)
Net asset value, end of period	11.82	11.95	11.57	13.11	13.19
<b>Total Return (%)</b>	1.93	6.36	(9.08)	1.75	4.43
<b>Ratios/Supplemental Data (%):</b>					
Ratio of total expenses to average net assets	.56	.66	.72	1.49	.76
Ratio of net expenses to average net assets	.55	.58	.60	.60	.60
Ratio of net investment income to average net assets	3.00	2.88	2.70	2.42	2.81
Portfolio Turnover Rate	20.81	13.02	8.56	10.36	14.13
<b>Net Assets, end of period (\$ x 1,000)</b>	1	1	1	1	1

<sup>(a)</sup> Based on average shares outstanding.

<sup>(b)</sup> Amount represents less than \$.01 per share.

See notes to financial statements.



FINANCIAL HIGHLIGHTS (continued)

Class Z Shares	Year Ended December 31,				
	2024	2023	2022	2021	2020
<b>Per Share Data (\$):</b>					
Net asset value, beginning of period	11.90	11.53	13.06	13.14	12.95
Investment Operations:					
Net investment income <sup>(a)</sup>	.33	.32	.31	.31	.35
Net realized and unrealized gain (loss) on investments	(.12)	.37	(1.50)	(.08)	.20
Total from Investment Operations	.21	.69	(1.19)	.23	.55
Distributions:					
Dividends from net investment income	(.33)	(.32)	(.31)	(.31)	(.34)
Dividends from net realized gain on investments	(.00) <sup>(b)</sup>	-	(.03)	-	(.02)
Total Distributions	(.33)	(.32)	(.34)	(.31)	(.36)
Net asset value, end of period	11.78	11.90	11.53	13.06	13.14
<b>Total Return (%)</b>	1.81	6.14	(9.15)	1.79	4.38
<b>Ratios/Supplemental Data (%):</b>					
Ratio of total expenses to average net assets	.67	.74	.78	.77	.76
Ratio of net expenses to average net assets	.66	.66	.66	.66	.65
Ratio of net investment income to average net assets	2.82	2.76	2.62	2.39	2.69
Portfolio Turnover Rate	20.81	13.02	8.56	10.36	14.13
<b>Net Assets, end of period (\$ x 1,000)</b>	63,497	67,565	72,615	86,900	87,648

<sup>(a)</sup> Based on average shares outstanding.

<sup>(b)</sup> Amount represents less than \$.01 per share.

See notes to financial statements.

## NOTES TO FINANCIAL STATEMENTS

### NOTE 1—Significant Accounting Policies:

BNY Mellon New Jersey Municipal Bond Fund, Inc. (the “fund”), which is registered under the Investment Company Act of 1940, as amended (the “Act”), is a non-diversified open-end management investment company. The fund’s investment objective is to seek as high a level of current income exempt from federal and New Jersey income taxes as is consistent with the preservation of capital. BNY Mellon Investment Adviser, Inc. (the “Adviser”), a wholly-owned subsidiary of The Bank of New York Mellon Corporation (“BNY”), serves as the fund’s investment adviser. Insight North America LLC (the “Sub-Adviser”), an indirect wholly-owned subsidiary of BNY and an affiliate of the Adviser, serves as the fund’s sub-adviser.

BNY Mellon Securities Corporation (the “Distributor”), a wholly-owned subsidiary of the Adviser, is the distributor of the fund’s shares. The fund is authorized to issue 775 million shares of \$.001 par value of Common Stock. The fund currently has authorized five classes of shares: Class A (200 million shares authorized), Class C (150 million shares authorized), Class I (150 million shares authorized), Class Y (150 million shares authorized) and Class Z (125 million shares authorized). Class A and Class C shares are sold primarily to retail investors through financial intermediaries and bear Distribution and/or Shareholder Services Plan fees. Class A shares generally are subject to a sales charge imposed at the time of purchase. Class A shares bought without an initial sales charge as part of an investment of \$250,000 or more may be charged a contingent deferred sales charge (“CDSC”) of 1.00% if redeemed within one year. Class C shares are subject to a CDSC imposed on Class C shares redeemed within one year of purchase. Class C shares automatically convert to Class A shares eight years after the date of purchase, without the imposition of a sales charge. Class I shares are sold primarily to bank trust departments and other financial service providers (including BNY and its affiliates), acting on behalf of customers having a qualified trust or an investment account or relationship at such institution, and bear no Distribution or Shareholder Services Plan fees. Class Y shares are sold at net asset value per share generally to institutional investors, and bear no Distribution or Shareholder Services Plan fees. Class Z shares are sold at net asset value per share to certain shareholders of the fund. Class Z shares generally are not available for new accounts and bear Shareholder Services Plan fees. Class I, Class Y and Class Z shares are offered without a front-end sales charge or CDSC. Other differences between the classes include the services offered to and the expenses borne by each class, the allocation of certain transfer agency costs and certain voting rights. Income, expenses (other than expenses attributable to a specific class), and realized and unrealized gains or losses on investments are allocated to each class of shares based on its relative net assets.

As of December 31, 2024, MBC Investments Corporation, an indirect subsidiary of BNY, held all of the outstanding Class Y shares of the fund.

The Financial Accounting Standards Board (“FASB”) Accounting Standards Codification (“ASC”) is the exclusive reference of authoritative U.S. generally accepted accounting principles (“GAAP”) recognized by the FASB to be applied by nongovernmental entities. Rules and interpretive releases of the SEC under authority of federal laws are also sources of authoritative GAAP for SEC registrants. The fund is an investment company and applies the accounting and reporting guidance of the FASB ASC Topic 946 Financial Services-Investment Companies. The fund’s financial statements are prepared in accordance with GAAP, which may require the use of management estimates and assumptions. Actual results could differ from those estimates.

The fund enters into contracts that contain a variety of indemnifications. The fund’s maximum exposure under these arrangements is unknown. The fund does not anticipate recognizing any loss related to these arrangements.

**(a) Portfolio valuation:** The fair value of a financial instrument is the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date (i.e., the exit price). GAAP establishes a fair value hierarchy that prioritizes the inputs of valuation techniques used to measure fair value. This hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements).

Additionally, GAAP provides guidance on determining whether the volume and activity in a market has decreased significantly and whether such a decrease in activity results in transactions that are not orderly. GAAP requires enhanced disclosures around valuation inputs and techniques used during annual and interim periods.

Various inputs are used in determining the value of the fund’s investments relating to fair value measurements. These inputs are summarized in the three broad levels listed below:

**Level 1**—unadjusted quoted prices in active markets for identical investments.

**Level 2**—other significant observable inputs (including quoted prices for similar investments, interest rates, prepayment speeds, credit risk, etc.).

**Level 3**—significant unobservable inputs (including the fund’s own assumptions in determining the fair value of investments).

The inputs or methodology used for valuing securities are not necessarily an indication of the risk associated with investing in those securities.

Changes in valuation techniques may result in transfers in or out of an assigned level within the disclosure hierarchy. Valuation techniques used to value the fund's investments are as follows:

The fund's Board of Directors (the "Board") has designated the Adviser as the fund's valuation designee to make all fair value determinations with respect to the fund's portfolio investments, subject to the Board's oversight and pursuant to Rule 2a-5 under the Act.

Investments in municipal securities are valued each business day by an independent pricing service (the "Service") approved by the Board. Investments for which quoted bid prices are readily available and are representative of the bid side of the market in the judgment of the Service are valued at the mean between the quoted bid prices (as obtained by the Service from dealers in such securities) and asked prices (as calculated by the Service based upon its evaluation of the market for such securities). Municipal investments (which constitute a majority of the portfolio securities) are carried at fair value as determined by the Service, based on methods which include consideration of the following: yields or prices of municipal securities of comparable quality, coupon, maturity and type; indications as to values from dealers; and general market conditions. The Service is engaged under the general oversight of the Board. All of the preceding securities are generally categorized within Level 2 of the fair value hierarchy.

When market quotations or official closing prices are not readily available, or are determined not to reflect accurately fair value, such as when the value of a security has been significantly affected by events after the close of the exchange or market on which the security is principally traded, but before the fund calculates its net asset value, the fund may value these investments at fair value as determined in accordance with the procedures approved by the Board. Certain factors may be considered when fair valuing investments such as: fundamental analytical data, the nature and duration of restrictions on disposition, an evaluation of the forces that influence the market in which the securities are purchased and sold, and public trading in similar securities of the issuer or comparable issuers. These securities are either categorized within Level 2 or 3 of the fair value hierarchy depending on the relevant inputs used.

For securities where observable inputs are limited, assumptions about market activity and risk are used and such securities are generally categorized within Level 3 of the fair value hierarchy.

The following is a summary of the inputs used as of December 31, 2024 in valuing the fund's investments:

	Level 1 - Unadjusted Quoted Prices	Level 2- Other Significant Observable Inputs	Level 3- Significant Unobservable Inputs	Total
<b>Assets (\$)</b>				
Investments in Securities: <sup>†</sup>				
Municipal Securities	—	311,007,249	—	<b>311,007,249</b>

<sup>†</sup> See Statement of Investments for additional detailed categorizations, if any.

**(b) Securities transactions and investment income:** Securities transactions are recorded on a trade date basis. Realized gains and losses from securities transactions are recorded on the identified cost basis. Interest income, adjusted for accretion of discount and amortization of premium on investments, is earned from settlement date and is recognized on the accrual basis. Securities purchased or sold on a when-issued or delayed delivery basis may be settled a month or more after the trade date.

The fund follows an investment policy of investing primarily in municipal obligations of one state. Economic changes affecting the state and certain of its public bodies and municipalities may affect the ability of issuers within the state to pay interest on, or repay principal of, municipal obligations held by the fund.

**(c) Market Risk:** The value of the securities in which the fund invests may be affected by political, regulatory, economic and social developments, and developments that impact specific economic sectors, industries or segments of the market. In addition, turbulence in financial markets and reduced liquidity in equity, credit and/or fixed-income markets may negatively affect many issuers, which could adversely affect the fund. Global economies and financial markets are becoming increasingly interconnected, and conditions and events in one country, region or financial market may adversely impact issuers in a different country, region or financial market. These risks may be magnified if certain events or developments adversely interrupt the global supply chain; in these and other circumstances, such risks might affect companies world-wide.

**Municipal Securities Risk:** The amount of public information available about municipal securities is generally less than that for corporate equities or bonds. Special factors, such as legislative changes, and state and local economic and business developments, may adversely affect the yield and/or value of the fund's investments in municipal securities. Other factors include the general conditions of the municipal securities market, the size of the particular offering, the maturity of the obligation and the rating of the issue. Changes in economic, business or political conditions relating to a particular municipal project, municipality, or state, territory or possession of the United States in which the fund invests may have an impact on the fund's share price. Any such credit impairment could adversely impact the value of their bonds, which could negatively impact the performance of the fund.

**State-Specific Risk:** The fund is subject to the risk that New Jersey's economy, and the revenues underlying its municipal obligations, may decline. Investing primarily in the municipal obligations of a single state makes the fund more sensitive to risks specific to that state and may entail more risk than investing in the municipal obligations of multiple states as a result of potentially less diversification.

**Non-Diversification Risk:** The fund is non-diversified, which means that the fund may invest a relatively high percentage of its assets in a limited number of issuers. Therefore, the fund's performance may be more vulnerable to changes in the market value of a single issuer or group of issuers and more susceptible to risks associated with a single economic, political or regulatory occurrence than a diversified fund.

**(d) Dividends and distributions to shareholders:** It is the policy of the fund to declare dividends daily from net investment income. Such dividends are paid monthly. Dividends from net realized capital gains, if any, are normally declared and paid annually, but the fund may make distributions on a more frequent basis to comply with the distribution requirements of the Internal Revenue Code of 1986, as amended (the "Code"). To the extent that net realized capital gains can be offset by capital loss carryovers, it is the policy of the fund not to distribute such gains. Income and capital gain distributions are determined in accordance with income tax regulations, which may differ from GAAP.

**(e) Federal income taxes:** It is the policy of the fund to continue to qualify as a regulated investment company, if such qualification is in the best interests of its shareholders, by complying with the applicable provisions of the Code, and to make distributions of taxable income and net realized capital gain sufficient to relieve it from substantially all federal income and excise taxes.

As of and during the period ended December 31, 2024, the fund did not have any liabilities for any uncertain tax positions. The fund recognizes interest and penalties, if any, related to uncertain tax positions as income tax expense in the Statement of Operations. During the period ended December 31, 2024, the fund did not incur any interest or penalties.

Each tax year in the four-year period ended December 31, 2024 remains subject to examination by the Internal Revenue Service and state taxing authorities.

At December 31, 2024, the components of accumulated earnings on a tax basis were as follows: undistributed tax-exempt income \$1,114,111, accumulated capital losses \$2,374,343 and unrealized depreciation \$7,632,259.

The fund is permitted to carry forward capital losses for an unlimited period. Furthermore, capital loss carryovers retain their character as either short-term or long-term capital losses.

The accumulated capital loss carryover is available for federal income tax purposes to be applied against future net realized capital gains, if any, realized subsequent to December 31, 2024. The fund has \$150,943 of short-term capital losses and \$2,223,400 of long-term capital losses which can be carried forward for an unlimited period.

The tax character of distributions paid to shareholders during the fiscal years ended December 31, 2024 and December 31, 2023 were as follows: tax-exempt income \$8,517,222 and \$9,003,744, and ordinary income \$80,537 and \$0, respectively.

**(f) Operating segment reporting:** In this reporting period, the fund adopted FASB Accounting Standards Update 2023-07, Segment Reporting (Topic 280) - Improvements to Reportable Segment Disclosures ("ASU 2023-07"). Adoption of the new standard impacted financial statement disclosures only and did not affect the fund's financial position or the results of its operations. The ASU 2023-07 is effective for public entities for fiscal years beginning after December 15, 2023, and requires retrospective application for all prior periods presented within the financial statements.

Since its commencement, the fund operates and is managed as a single reportable segment deriving returns in the form of dividends, interest and/or gains from the investments made in pursuit of its single stated investment objective as outlined in the fund's prospectus. The accounting policies of the fund are consistent with those described in these Notes to Financial Statements. The chief operating decision maker ("CODM") is represented by BNY Investments, the management of the fund's Adviser, comprising of Senior Management and Directors. The CODM considers net increase in net assets resulting from operations in deciding whether to purchase addi-

tional investments or to make distributions to its shareholders. Detailed financial information for the fund is disclosed within these financial statements with total assets and liabilities disclosed on the Statement of Assets and Liabilities, investments held on the Statement of Investments, results of operations and significant segment expenses on the Statement of Operations and other information about the fund's performance, including total return, portfolio turnover and ratios within the Financial Highlights.

**NOTE 2—Bank Lines of Credit:**

The fund participates with other long-term open-end funds managed by the Adviser in a \$738 million unsecured credit facility led by Citibank, N.A. (the "Citibank Credit Facility") and a \$300 million unsecured credit facility provided by BNY (the "BNY Credit Facility"), each to be utilized primarily for temporary or emergency purposes, including the financing of redemptions (each, a "Facility"). The Citibank Credit Facility is available in two tranches: (i) Tranche A is in an amount equal to \$618 million and is available to all long-term open-ended funds, including the fund, and (ii) Tranche B is an amount equal to \$120 million and is available only to BNY Mellon Floating Rate Income Fund, a series of BNY Mellon Investment Funds IV, Inc. In connection therewith, the fund has agreed to pay its pro rata portion of commitment fees for Tranche A of the Citibank Credit Facility and the BNY Credit Facility. Interest is charged to the fund based on rates determined pursuant to the terms of the respective Facility at the time of borrowing. During the period ended December 31, 2024, the fund did not borrow under either Facility.

**NOTE 3—Management Fee, Sub-Advisory Fee and Other Transactions with Affiliates:**

(a) Pursuant to a management agreement with the Adviser, the management fee is computed at the annual rate of .45% of the value of the fund's average daily net assets and is payable monthly. The Adviser has contractually agreed, from January 1, 2024 through May 1, 2025, to waive receipt of its fees and/or assume the direct expenses of the fund so that the direct expenses of none of the fund's share classes (excluding Rule 12b-1 Distribution Plan fees, Shareholder Services Plan fees, taxes, interest expense, brokerage commissions, commitment fees on borrowings and extraordinary expenses) exceed .60% of the value of the fund's average daily net assets. On or after May 1, 2025, the Adviser may terminate this expense limitation agreement at any time. The reduction in expenses, pursuant to the undertaking, amounted to \$1,161 during the period ended December 31, 2024.

Pursuant to a sub-investment advisory agreement between the Adviser and the Sub-Adviser, the Adviser pays the Sub-Adviser a monthly fee at an annual rate of .216% of the value of the fund's average daily net assets.

During the period ended December 31, 2024, the Distributor retained \$59 from commissions earned on sales of the fund's Class A shares.

(b) Under the Distribution Plan adopted pursuant to Rule 12b-1 under the Act, Class C shares pay the Distributor for distributing its shares at an annual rate of .75% of the value of its average daily net assets. The Distributor may pay one or more Service Agents in respect of advertising, marketing and other distribution services, and determines the amounts, if any, to be paid to Service Agents and the basis on which such payments are made. During the period ended December 31, 2024, Class C shares were charged \$3,164 pursuant to the Distribution Plan.

(c) Under the Shareholder Services Plan, Class A and Class C shares pay the Distributor at an annual rate of .25% of the value of their average daily net assets for the provision of certain services. The services provided may include personal services relating to shareholder accounts, such as answering shareholder inquiries regarding the fund, and services related to the maintenance of shareholder accounts. The Distributor may make payments to Service Agents (securities dealers, financial institutions or other industry professionals) with respect to these services. The Distributor determines the amounts to be paid to Service Agents. During the period ended December 31, 2024, Class A and Class C shares were charged \$586,969 and \$1,055, respectively, pursuant to the Shareholder Services Plan.

Under the Shareholder Services Plan, Class Z shares reimburse the Distributor at an amount not to exceed an annual rate of .25% of the value of Class Z shares' average daily net assets for certain allocated expenses of providing personal services and/or maintaining shareholder accounts. The services provided may include personal services relating to shareholder accounts, such as answering shareholder inquiries regarding Class Z shares, and services related to the maintenance of shareholder accounts. During the period ended December 31, 2024, Class Z shares were charged \$47,204 pursuant to the Shareholder Services Plan.

The fund has arrangements with BNY Mellon Transfer, Inc., (the "Transfer Agent") and The Bank of New York Mellon (the "Custodian"), both a subsidiary of BNY and an affiliate of the Adviser, whereby the fund may receive earnings credits when positive cash balances are maintained, which are used to offset Transfer Agent and Custodian fees. For financial reporting purposes, the fund includes transfer agent net earnings credits, if any, and custody net earnings credits, if any, as an expense offset in the Statement of Operations.

The fund compensates the Transfer Agent, under a transfer agency agreement, for providing transfer agency and cash management services for the fund. The majority of Transfer Agent fees are comprised of amounts paid on a per account basis, while cash management fees are related to fund subscriptions and redemptions. During the period ended December 31, 2024, the fund was charged \$82,336 for transfer agency services. These fees are included in Shareholder servicing costs in the Statement of Operations. These fees were partially offset by earnings credits of \$16,565.

The fund compensates the Custodian, under a custody agreement, for providing custodial services for the fund. These fees are determined based on net assets, geographic region and transaction activity. During the period ended December 31, 2024, the fund was charged \$7,399 pursuant to the custody agreement. These fees were offset by earnings credits of \$7,399.

The fund compensates the Custodian, under a shareholder redemption draft processing agreement, for providing certain services related to the fund's check writing privilege. During the period ended December 31, 2024, the fund was charged \$5,334 pursuant to the agreement, which is included in Shareholder servicing costs in the Statement of Operations.

During the period ended December 31, 2024, the fund was charged \$19,576 for services performed by the fund's Chief Compliance Officer and his staff. These fees are included in Chief Compliance Officer fees in the Statement of Operations.

The components of "Due to BNY Mellon Investment Adviser, Inc. and affiliates" in the Statement of Assets and Liabilities consist of: Management fee of \$121,422, Distribution Plan fees of \$196, Shareholder Services Plan fees of \$49,815, Custodian fees of \$1,500, Chief Compliance Officer fees of \$4,057 and Transfer Agent fees of \$15,306.

(d) Each board member of the fund also serves as a board member of other funds in the BNY Mellon Family of Funds complex. Annual retainer fees and attendance fees are allocated to each fund based on net assets.

**NOTE 4—Securities Transactions:**

The aggregate amount of purchases and sales of investment securities, excluding short-term securities, during the period ended December 31, 2024, amounted to \$65,590,407 and \$73,566,375, respectively.

At December 31, 2024, the cost of investments for federal income tax purposes was \$318,639,508; accordingly, accumulated net unrealized depreciation on investments was \$7,632,259, consisting of \$2,925,071 gross unrealized appreciation and \$10,557,330 gross unrealized depreciation.



## REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Shareholders and the Board of Directors of BNY Mellon New Jersey Municipal Bond Fund, Inc.

### *Opinion on the Financial Statements*

We have audited the accompanying statement of assets and liabilities of BNY Mellon New Jersey Municipal Bond Fund, Inc. (the “Fund”), including the statement of investments, as of December 31, 2024, and the related statement of operations for the year then ended, the statements of changes in net assets for each of the two years in the period then ended, the financial highlights for each of the five years in the period then ended and the related notes (collectively referred to as the “financial statements”). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Fund at December 31, 2024, the results of its operations for the year then ended, the changes in its net assets for each of the two years in the period then ended and its financial highlights for each of the five years in the period then ended, in conformity with U.S. generally accepted accounting principles.

### *Basis for Opinion*

These financial statements are the responsibility of the Fund’s management. Our responsibility is to express an opinion on the Fund’s financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (“PCAOB”) and are required to be independent with respect to the Fund in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Fund is not required to have, nor were we engaged to perform, an audit of the Fund’s internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Fund’s internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our procedures included confirmation of securities owned as of December 31, 2024, by correspondence with the custodian, brokers and others; when replies were not received from brokers and others, we performed other auditing procedures. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

*Ernst & Young LLP*

We have served as the auditor of one or more investment companies in the BNY Mellon Family of Funds since at least 1957, but we are unable to determine the specific year.

New York, New York  
February 21, 2025

## IMPORTANT TAX INFORMATION (Unaudited)

In accordance with federal tax law, the fund hereby reports all the dividends paid from net investment income during the fiscal year ended December 31, 2024 as “exempt-interest dividends” (not subject to regular federal income tax, and for individuals who are New York residents, New York State and New York City personal income taxes). Where required by federal tax law rules, shareholders will receive notification of their portion of the fund’s taxable ordinary dividends (if any), capital gains distributions (if any) and tax-exempt dividends paid for the 2024 calendar year on Form 1099-DIV, which will be mailed in early 2025. The fund also hereby reports \$.0030 per share as a short-term capital gain distribution paid on March 26, 2024.



Item 8. Changes in and Disagreements with Accountants for Open-End Management Investment Companies (Unaudited)

N/A

Item 9. Proxy Disclosures for Open-End Management Investment Companies (Unaudited)

N/A

## Item 10. Remuneration Paid to Directors, Officers, and Others of Open-End Management Investment Companies (Unaudited)

Each board member also serves as a board member of other funds in the BNY Mellon Family of Funds complex. Annual retainer fees and attendance fees are allocated to each fund based on net assets. Directors fees paid by the fund are within Item 7. Statement of Operations as Directors' fees and expenses.

Item 11. Statement Regarding Basis for Approval of Investment Advisory Contracts (Unaudited)

N/A

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