

Form 5500

Annual Return/Report of Employee Benefit Plan

OMB Nos. 1210-0110 1210-0089

2024

This Form is Open to Public Inspection

Department of the Treasury Internal Revenue Service

Department of Labor Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code).

Complete all entries in accordance with the instructions to the Form 5500.

Part I Annual Report Identification Information

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

- A This return/report is for: [ ] a multiemployer plan [ ] a multiple-employer plan... [X] a single-employer plan [ ] a DFE... B This return/report is: [ ] the first return/report [ ] the final return/report... C If the plan is a collectively-bargained plan, check here... D Check box if filing under: [X] Form 5558 [ ] automatic extension... E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here...

Part II Basic Plan Information—enter all requested information

1a Name of plan: EMPLOYEE STOCK OWNERSHIP PLAN OF LAKESHORE BANCORP, INC. 1b Three-digit plan number (PN): 001 1c Effective date of plan: 01/01/2006 2a Plan sponsor's name (employer, if for a single-employer plan): LAKE SHORE BANCORP INC. 2b Employer Identification Number (EIN): 20-4729288 2c Plan Sponsor's telephone number: 716-366-4070 2d Business code (see instructions): 522120

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

Table with 4 columns: SIGN HERE, Signature of plan administrator, Date, Enter name of individual signing as plan administrator. Includes rows for employer/plan sponsor and DFE.

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2024) v. 240311

<b>3a</b> Plan administrator's name and address <input checked="" type="checkbox"/> Same as Plan Sponsor	<b>3b</b> Administrator's EIN	
	<b>3c</b> Administrator's telephone number	
<b>4</b> If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: <b>a</b> Sponsor's name <b>c</b> Plan Name	<b>4b</b> EIN	
	<b>4d</b> PN	
<b>5</b> Total number of participants at the beginning of the plan year	<b>5</b>	117
<b>6</b> Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines <b>6a(1)</b> , <b>6a(2)</b> , <b>6b</b> , <b>6c</b> , and <b>6d</b> ). <b>a(1)</b> Total number of active participants at the beginning of the plan year ..... <b>a(2)</b> Total number of active participants at the end of the plan year ..... <b>b</b> Retired or separated participants receiving benefits..... <b>c</b> Other retired or separated participants entitled to future benefits ..... <b>d</b> Subtotal. Add lines <b>6a(2)</b> , <b>6b</b> , and <b>6c</b> ..... <b>e</b> Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. .... <b>f</b> Total. Add lines <b>6d</b> and <b>6e</b> ..... <b>g(1)</b> Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item) ..... <b>g(2)</b> Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) ..... <b>h</b> Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....	<b>6a(1)</b>	87
	<b>6a(2)</b>	84
	<b>6b</b>	0
	<b>6c</b>	38
	<b>6d</b>	122
	<b>6e</b>	0
	<b>6f</b>	122
	<b>6g(1)</b>	92
<b>6g(2)</b>	102	
<b>6h</b>	8	
<b>7</b> Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item) .....	<b>7</b>	

**8a** If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:  
2E 2P 3I

**b** If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:

<b>9a</b> Plan funding arrangement (check all that apply)	<b>9b</b> Plan benefit arrangement (check all that apply)
(1) <input type="checkbox"/> Insurance	(1) <input type="checkbox"/> Insurance
(2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts	(2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts
(3) <input checked="" type="checkbox"/> Trust	(3) <input checked="" type="checkbox"/> Trust
(4) <input type="checkbox"/> General assets of the sponsor	(4) <input type="checkbox"/> General assets of the sponsor

**10** Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

<b>a Pension Schedules</b>	<b>b General Schedules</b>
(1) <input checked="" type="checkbox"/> <b>R</b> (Retirement Plan Information)	(1) <input checked="" type="checkbox"/> <b>H</b> (Financial Information)
(2) <input type="checkbox"/> <b>MB</b> (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary	(2) <input type="checkbox"/> <b>I</b> (Financial Information – Small Plan)
(3) <input type="checkbox"/> <b>SB</b> (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary	(3) <input type="checkbox"/> <b>A</b> (Insurance Information) – Number Attached <u>0</u>
(4) <input type="checkbox"/> <b>DCG</b> (Individual Plan Information) – Number Attached _____	(4) <input checked="" type="checkbox"/> <b>C</b> (Service Provider Information)
(5) <input type="checkbox"/> <b>MEP</b> (Multiple-Employer Retirement Plan Information)	(5) <input checked="" type="checkbox"/> <b>D</b> (DFE/Participating Plan Information)
	(6) <input type="checkbox"/> <b>G</b> (Financial Transaction Schedules)

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**Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)**

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**11a** If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) .....  Yes  No

If "Yes" is checked, complete lines 11b and 11c.

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**11b** Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) .....  Yes  No

**11c** Enter the Receipt Confirmation Code for the 2024 Form M-1 annual report. If the plan was not required to file the 2024 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code \_\_\_\_\_

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<b>SCHEDULE C</b> <b>(Form 5500)</b>  <small>Department of the Treasury Internal Revenue Service</small>  <small>Department of Labor Employee Benefits Security Administration</small>  <small>Pension Benefit Guaranty Corporation</small>	<b>Service Provider Information</b>  This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).  <b>▶ File as an attachment to Form 5500.</b>	<small>OMB No. 1210-0110</small>  <b>2024</b>  <b>This Form is Open to Public Inspection.</b>
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For calendar plan year 2024 or fiscal plan year beginning **01/01/2024** and ending **12/31/2024**

<b>A</b> Name of plan <b>EMPLOYEE STOCK OWNERSHIP PLAN OF LAKESHORE BANCORP, INC.</b>	<b>B</b> Three-digit plan number (PN) ▶	<b>001</b>
<b>C</b> Plan sponsor's name as shown on line 2a of Form 5500 <b>LAKE SHORE BANCORP INC.</b>	<b>D</b> Employer Identification Number (EIN) <b>20-4729288</b>	

**Part I Service Provider Information (see instructions)**

You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

**1 Information on Persons Receiving Only Eligible Indirect Compensation**

**a** Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions)...  Yes  No

**b** If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

**(b)** Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

**BENEFIT PLANS ADMIN SERVICES, INC.**

**16-1503696**

**(b)** Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

**FEDERATED HERMES SERVICES COMPANY**                      **1001 LIBERTY AVENUE**  
**PITTSBURGH, PA 15222**

**(b)** Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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**(b)** Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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**2. Information on Other Service Providers Receiving Direct or Indirect Compensation.** Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

<b>(b)</b> Service Code(s)	<b>(c)</b> Relationship to employer, employee organization, or person known to be a party-in-interest	<b>(d)</b> Enter direct compensation paid by the plan. If none, enter -0-.	<b>(e)</b> Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	<b>(f)</b> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	<b>(g)</b> Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	<b>(h)</b> Did the service provider give you a formula instead of an amount or estimated amount?
			Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>

(a) Enter name and EIN or address (see instructions)

<b>(b)</b> Service Code(s)	<b>(c)</b> Relationship to employer, employee organization, or person known to be a party-in-interest	<b>(d)</b> Enter direct compensation paid by the plan. If none, enter -0-.	<b>(e)</b> Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	<b>(f)</b> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	<b>(g)</b> Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	<b>(h)</b> Did the service provider give you a formula instead of an amount or estimated amount?
			Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>

(a) Enter name and EIN or address (see instructions)

<b>(b)</b> Service Code(s)	<b>(c)</b> Relationship to employer, employee organization, or person known to be a party-in-interest	<b>(d)</b> Enter direct compensation paid by the plan. If none, enter -0-.	<b>(e)</b> Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	<b>(f)</b> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	<b>(g)</b> Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	<b>(h)</b> Did the service provider give you a formula instead of an amount or estimated amount?
			Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>

**Part I Service Provider Information (continued)**

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

<b>(a)</b> Enter service provider name as it appears on line 2	<b>(b)</b> Service Codes (see instructions)	<b>(c)</b> Enter amount of indirect compensation
<b>(d)</b> Enter name and EIN (address) of source of indirect compensation	<b>(e)</b> Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
<b>(a)</b> Enter service provider name as it appears on line 2	<b>(b)</b> Service Codes (see instructions)	<b>(c)</b> Enter amount of indirect compensation
<b>(d)</b> Enter name and EIN (address) of source of indirect compensation	<b>(e)</b> Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
<b>(a)</b> Enter service provider name as it appears on line 2	<b>(b)</b> Service Codes (see instructions)	<b>(c)</b> Enter amount of indirect compensation
<b>(d)</b> Enter name and EIN (address) of source of indirect compensation	<b>(e)</b> Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

**Part II Service Providers Who Fail or Refuse to Provide Information**

**4** Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

<b>(a)</b> Enter name and EIN or address of service provider (see instructions)	<b>(b)</b> Nature of Service Code(s)	<b>(c)</b> Describe the information that the service provider failed or refused to provide

<b>(a)</b> Enter name and EIN or address of service provider (see instructions)	<b>(b)</b> Nature of Service Code(s)	<b>(c)</b> Describe the information that the service provider failed or refused to provide

<b>(a)</b> Enter name and EIN or address of service provider (see instructions)	<b>(b)</b> Nature of Service Code(s)	<b>(c)</b> Describe the information that the service provider failed or refused to provide

<b>(a)</b> Enter name and EIN or address of service provider (see instructions)	<b>(b)</b> Nature of Service Code(s)	<b>(c)</b> Describe the information that the service provider failed or refused to provide

<b>(a)</b> Enter name and EIN or address of service provider (see instructions)	<b>(b)</b> Nature of Service Code(s)	<b>(c)</b> Describe the information that the service provider failed or refused to provide

<b>(a)</b> Enter name and EIN or address of service provider (see instructions)	<b>(b)</b> Nature of Service Code(s)	<b>(c)</b> Describe the information that the service provider failed or refused to provide

**Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)**  
(complete as many entries as needed)

<b>a</b> Name:	<b>b</b> EIN:
<b>c</b> Position:	
<b>d</b> Address:	<b>e</b> Telephone:

Explanation:

<b>a</b> Name:	<b>b</b> EIN:
<b>c</b> Position:	
<b>d</b> Address:	<b>e</b> Telephone:

Explanation:

<b>a</b> Name:	<b>b</b> EIN:
<b>c</b> Position:	
<b>d</b> Address:	<b>e</b> Telephone:

Explanation:

<b>a</b> Name:	<b>b</b> EIN:
<b>c</b> Position:	
<b>d</b> Address:	<b>e</b> Telephone:

Explanation:

<b>a</b> Name:	<b>b</b> EIN:
<b>c</b> Position:	
<b>d</b> Address:	<b>e</b> Telephone:

Explanation:

<b>SCHEDULE D</b> <b>(Form 5500)</b>  <small>Department of the Treasury Internal Revenue Service</small>  <small>Department of Labor Employee Benefits Security Administration</small>	<b>DFE/Participating Plan Information</b>  This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).  <b>▶ File as an attachment to Form 5500.</b>	<small>OMB No. 1210-0110</small>  <b>2024</b>  <b>This Form is Open to Public Inspection.</b>
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

<b>A</b> Name of plan <u>EMPLOYEE STOCK OWNERSHIP PLAN OF LAKESHORE BANCORP, INC.</u>	<b>B</b> Three-digit plan number (PN)	<u>001</u>
<b>C</b> Plan or DFE sponsor's name as shown on line 2a of Form 5500 <u>LAKE SHORE BANCORP INC.</u>	<b>D</b> Employer Identification Number (EIN) <u>20-4729288</u>	

<b>Part I</b>	<b>Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs)</b> (Complete as many entries as needed to report all interests in DFEs)
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<b>a</b> Name of MTIA, CCT, PSA, or 103-12 IE: <u>FEDERATED CAPITAL PRESERVATION FUND</u>		
<b>b</b> Name of sponsor of entity listed in (a): <u>FEDERATED INVESTORS, INC.</u>		
<b>c</b> EIN-PN <u>22-2712853-001</u>	<b>d</b> Entity code <u>C</u>	<b>e</b> Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>198894</u>
<b>a</b> Name of MTIA, CCT, PSA, or 103-12 IE:		
<b>b</b> Name of sponsor of entity listed in (a):		
<b>c</b> EIN-PN	<b>d</b> Entity code	<b>e</b> Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
<b>a</b> Name of MTIA, CCT, PSA, or 103-12 IE:		
<b>b</b> Name of sponsor of entity listed in (a):		
<b>c</b> EIN-PN	<b>d</b> Entity code	<b>e</b> Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
<b>a</b> Name of MTIA, CCT, PSA, or 103-12 IE:		
<b>b</b> Name of sponsor of entity listed in (a):		
<b>c</b> EIN-PN	<b>d</b> Entity code	<b>e</b> Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
<b>a</b> Name of MTIA, CCT, PSA, or 103-12 IE:		
<b>b</b> Name of sponsor of entity listed in (a):		
<b>c</b> EIN-PN	<b>d</b> Entity code	<b>e</b> Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
<b>a</b> Name of MTIA, CCT, PSA, or 103-12 IE:		
<b>b</b> Name of sponsor of entity listed in (a):		
<b>c</b> EIN-PN	<b>d</b> Entity code	<b>e</b> Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
<b>a</b> Name of MTIA, CCT, PSA, or 103-12 IE:		
<b>b</b> Name of sponsor of entity listed in (a):		
<b>c</b> EIN-PN	<b>d</b> Entity code	<b>e</b> Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

**a** Name of MTIA, CCT, PSA, or 103-12 IE:

**b** Name of sponsor of entity listed in (a):

**c** EIN-PN

**d** Entity code

**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

**a** Name of MTIA, CCT, PSA, or 103-12 IE:

**b** Name of sponsor of entity listed in (a):

**c** EIN-PN

**d** Entity code

**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

**a** Name of MTIA, CCT, PSA, or 103-12 IE:

**b** Name of sponsor of entity listed in (a):

**c** EIN-PN

**d** Entity code

**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

**a** Name of MTIA, CCT, PSA, or 103-12 IE:

**b** Name of sponsor of entity listed in (a):

**c** EIN-PN

**d** Entity code

**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

**a** Name of MTIA, CCT, PSA, or 103-12 IE:

**b** Name of sponsor of entity listed in (a):

**c** EIN-PN

**d** Entity code

**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

**a** Name of MTIA, CCT, PSA, or 103-12 IE:

**b** Name of sponsor of entity listed in (a):

**c** EIN-PN

**d** Entity code

**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

**a** Name of MTIA, CCT, PSA, or 103-12 IE:

**b** Name of sponsor of entity listed in (a):

**c** EIN-PN

**d** Entity code

**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

**a** Name of MTIA, CCT, PSA, or 103-12 IE:

**b** Name of sponsor of entity listed in (a):

**c** EIN-PN

**d** Entity code

**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

**a** Name of MTIA, CCT, PSA, or 103-12 IE:

**b** Name of sponsor of entity listed in (a):

**c** EIN-PN

**d** Entity code

**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

**a** Name of MTIA, CCT, PSA, or 103-12 IE:

**b** Name of sponsor of entity listed in (a):

**c** EIN-PN

**d** Entity code

**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

**Part II Information on Participating Plans (to be completed by DFEs, other than DCGs)**

(Complete as many entries as needed to report all participating plans. DCGs must report each participating plan using Schedule DCG.)

**a** Plan name

**b** Name of plan sponsor

**c** EIN-PN

**a** Plan name

**b** Name of plan sponsor

**c** EIN-PN

**a** Plan name

**b** Name of plan sponsor

**c** EIN-PN

**a** Plan name

**b** Name of plan sponsor

**c** EIN-PN

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**c** EIN-PN

**a** Plan name

**b** Name of plan sponsor

**c** EIN-PN

**a** Plan name

**b** Name of plan sponsor

**c** EIN-PN

**a** Plan name

**b** Name of plan sponsor

**c** EIN-PN

<b>SCHEDULE H</b> <b>(Form 5500)</b>  <small>Department of the Treasury Internal Revenue Service</small>  <small>Department of Labor Employee Benefits Security Administration</small>  <small>Pension Benefit Guaranty Corporation</small>	<b>Financial Information</b>  This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code).  ▶ <b>File as an attachment to Form 5500.</b>	OMB No. 1210-0110  <b>2024</b>  <b>This Form is Open to Public Inspection</b>
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For calendar plan year 2024 or fiscal plan year beginning <b>01/01/2024</b> and ending <b>12/31/2024</b>	
<b>A</b> Name of plan <b>EMPLOYEE STOCK OWNERSHIP PLAN OF LAKESHORE BANCORP, INC.</b>	<b>B</b> Three-digit plan number (PN) ▶ <b>001</b>
<b>C</b> Plan sponsor's name as shown on line 2a of Form 5500 <b>LAKE SHORE BANCORP INC.</b>	<b>D</b> Employer Identification Number (EIN) <b>20-4729288</b>

<b>Part I</b>	<b>Asset and Liability Statement</b>
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**1** Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. **Round off amounts to the nearest dollar.** MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.

	(a) Beginning of Year	(b) End of Year
<b>Assets</b>		
<b>a</b> Total noninterest-bearing cash .....	<b>1a</b>	
<b>b</b> Receivables (less allowance for doubtful accounts):		
<b>(1)</b> Employer contributions .....	<b>1b(1)</b>	
<b>(2)</b> Participant contributions .....	<b>1b(2)</b>	
<b>(3)</b> Other .....	<b>1b(3)</b>	
<b>c</b> General investments:		
<b>(1)</b> Interest-bearing cash (include money market accounts & certificates of deposit) .....	<b>1c(1)</b>	521
<b>(2)</b> U.S. Government securities .....	<b>1c(2)</b>	
<b>(3)</b> Corporate debt instruments (other than employer securities):		
<b>(A)</b> Preferred .....	<b>1c(3)(A)</b>	
<b>(B)</b> All other .....	<b>1c(3)(B)</b>	
<b>(4)</b> Corporate stocks (other than employer securities):		
<b>(A)</b> Preferred .....	<b>1c(4)(A)</b>	
<b>(B)</b> Common .....	<b>1c(4)(B)</b>	
<b>(5)</b> Partnership/joint venture interests .....	<b>1c(5)</b>	
<b>(6)</b> Real estate (other than employer real property) .....	<b>1c(6)</b>	
<b>(7)</b> Loans (other than to participants) .....	<b>1c(7)</b>	
<b>(8)</b> Participant loans .....	<b>1c(8)</b>	
<b>(9)</b> Value of interest in common/collective trusts .....	<b>1c(9)</b>	198894
<b>(10)</b> Value of interest in pooled separate accounts .....	<b>1c(10)</b>	
<b>(11)</b> Value of interest in master trust investment accounts .....	<b>1c(11)</b>	
<b>(12)</b> Value of interest in 103-12 investment entities .....	<b>1c(12)</b>	
<b>(13)</b> Value of interest in registered investment companies (e.g., mutual funds) .....	<b>1c(13)</b>	
<b>(14)</b> Value of funds held in insurance company general account (unallocated contracts).....	<b>1c(14)</b>	
<b>(15)</b> Other.....	<b>1c(15)</b>	

1d Employer-related investments:		(a) Beginning of Year	(b) End of Year
(1) Employer securities.....	1d(1)	2084954	2217192
(2) Employer real property.....	1d(2)		
e Buildings and other property used in plan operation.....	1e		
f Total assets (add all amounts in lines 1a through 1e).....	1f	2294253	2416607
<b>Liabilities</b>			
g Benefit claims payable.....	1g		
h Operating payables.....	1h		
i Acquisition indebtedness.....	1i		
j Other liabilities.....	1j	1293940	1223708
k Total liabilities (add all amounts in lines 1g through 1j).....	1k	1293940	1223708
<b>Net Assets</b>			
l Net assets (subtract line 1k from line 1f).....	1l	1000313	1192899

**Part II Income and Expense Statement**

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

<b>Income</b>		(a) Amount	(b) Total
<b>a Contributions:</b>			
(1) Received or receivable in cash from: (A) Employers.....	2a(1)(A)	167278	
(B) Participants.....	2a(1)(B)		
(C) Others (including rollovers).....	2a(1)(C)		
(2) Noncash contributions.....	2a(2)		
(3) Total contributions. Add lines 2a(1)(A), (B), (C), and line 2a(2).....	2a(3)		167278
<b>b Earnings on investments:</b>			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit).....	2b(1)(A)		
(B) U.S. Government securities.....	2b(1)(B)		
(C) Corporate debt instruments.....	2b(1)(C)		
(D) Loans (other than to participants).....	2b(1)(D)		
(E) Participant loans.....	2b(1)(E)		
(F) Other.....	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F).....	2b(1)(G)		0
(2) Dividends:			
(A) Preferred stock.....	2b(2)(A)		
(B) Common stock.....	2b(2)(B)	36546	
(C) Registered investment company shares (e.g. mutual funds).....	2b(2)(C)		
(D) Total dividends. Add lines 2b(2)(A), (B), and (C).....	2b(2)(D)		
(3) Rents.....	2b(3)		
(4) Net gain (loss) on sale of assets:			
(A) Aggregate proceeds.....	2b(4)(A)	138266	
(B) Aggregate carrying amount (see instructions).....	2b(4)(B)	126768	
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result.....	2b(4)(C)		
(5) Unrealized appreciation (depreciation) of assets:			
(A) Real estate.....	2b(5)(A)		
(B) Other.....	2b(5)(B)	318210	
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B).....	2b(5)(C)		

		(a) Amount	(b) Total
<b>(6)</b> Net investment gain (loss) from common/collective trusts .....	<b>2b(6)</b>		4250
<b>(7)</b> Net investment gain (loss) from pooled separate accounts .....	<b>2b(7)</b>		
<b>(8)</b> Net investment gain (loss) from master trust investment accounts .....	<b>2b(8)</b>		
<b>(9)</b> Net investment gain (loss) from 103-12 investment entities .....	<b>2b(9)</b>		
<b>(10)</b> Net investment gain (loss) from registered investment companies (e.g., mutual funds) .....	<b>2b(10)</b>		
<b>c</b> Other income .....	<b>2c</b>		
<b>d</b> Total income. Add all <b>income</b> amounts in column (b) and enter total.....	<b>2d</b>		537782

**Expenses**

<b>e</b> Benefit payment and payments to provide benefits:			
<b>(1)</b> Directly to participants or beneficiaries, including direct rollovers.....	<b>2e(1)</b>	248151	
<b>(2)</b> To insurance carriers for the provision of benefits .....	<b>2e(2)</b>		
<b>(3)</b> Other.....	<b>2e(3)</b>		
<b>(4)</b> Total benefit payments. Add lines <b>2e(1)</b> through <b>(3)</b> .....	<b>2e(4)</b>		248151
<b>f</b> Corrective distributions (see instructions) .....	<b>2f</b>		
<b>g</b> Certain deemed distributions of participant loans (see instructions).....	<b>2g</b>		
<b>h</b> Interest expense.....	<b>2h</b>		
<b>i</b> Administrative expenses:			
<b>(1)</b> Salaries and allowances .....	<b>2i(1)</b>		
<b>(2)</b> Contract administrator fees .....	<b>2i(2)</b>		
<b>(3)</b> Recordkeeping fees .....	<b>2i(3)</b>	0	
<b>(4)</b> IQPA audit fees .....	<b>2i(4)</b>		
<b>(5)</b> Investment advisory and investment management fees .....	<b>2i(5)</b>		
<b>(6)</b> Bank or trust company trustee/custodial fees .....	<b>2i(6)</b>		
<b>(7)</b> Actuarial fees .....	<b>2i(7)</b>		
<b>(8)</b> Legal fees .....	<b>2i(8)</b>		
<b>(9)</b> Valuation/appraisal fees .....	<b>2i(9)</b>		
<b>(10)</b> Other trustee fees and expenses .....	<b>2i(10)</b>		
<b>(11)</b> Other expenses.....	<b>2i(11)</b>	97045	
<b>(12)</b> Total administrative expenses. Add lines <b>2i(1)</b> through <b>(11)</b> .....	<b>2i(12)</b>		97045
<b>j</b> Total expenses. Add all <b>expense</b> amounts in column (b) and enter total.....	<b>2j</b>		345196

**Net Income and Reconciliation**

<b>k</b> Net income (loss). Subtract line <b>2j</b> from line <b>2d</b> .....	<b>2k</b>		192586
<b>l</b> Transfers of assets:			
<b>(1)</b> To this plan.....	<b>2l(1)</b>		
<b>(2)</b> From this plan .....	<b>2l(2)</b>		

**Part III Accountant's Opinion**

**3** Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

**a** The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1)  Unmodified (2)  Qualified (3)  Disclaimer (4)  Adverse

**b** Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1)  DOL Regulation 2520.103-8 (2)  DOL Regulation 2520.103-12(d) (3)  neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

**c** Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: **YOUNT, HYDE & BARBOUR, P.C.**

(2) EIN: **54-1149263**

**d** The opinion of an independent qualified public accountant is **not attached** as part of Schedule H because:

(1)  This form is filed for a CCT, PSA, DCG or MTIA. (2)  It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

**Part IV Compliance Questions**

**4** CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l. DCGs do not complete lines 4e, 4f, 4k, 4l, and 5, and DCGs generally complete the rest of Part IV collectively for all plans in the DCG, except as otherwise provided (see instructions).

During the plan year:

	Yes	No	Amount
<b>a</b> Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.)		X	
<b>b</b> Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)		X	
<b>c</b> Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)		X	
<b>d</b> Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)		X	
<b>e</b> Was this plan covered by a fidelity bond?	X		1000000
<b>f</b> Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
<b>g</b> Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
<b>h</b> Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
<b>i</b> Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
<b>j</b> Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)		X	
<b>k</b> Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		X	
<b>l</b> Has the plan failed to provide any benefit when due under the plan?		X	
<b>m</b> If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)		X	
<b>n</b> If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			

**5a** Has a resolution to terminate the plan been adopted during the plan year or any prior plan year?  Yes  No  
If "Yes," enter the amount of any plan assets that reverted to the employer this year \_\_\_\_\_.

**5b** If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

<b>5b(1)</b> Name of plan(s)	<b>5b(2)</b> EIN(s)	<b>5b(3)</b> PN(s)

**5c** Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) .....  Yes  No  Not determined  
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year \_\_\_\_\_.

<b>SCHEDULE R</b> <b>(Form 5500)</b>  <small>Department of the Treasury Internal Revenue Service</small>  <small>Department of Labor Employee Benefits Security Administration</small>  <small>Pension Benefit Guaranty Corporation</small>	<b>Retirement Plan Information</b>  This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code).  <b>▶ File as an attachment to Form 5500.</b>	<small>OMB No. 1210-0110</small>  <b>2024</b>  <b>This Form is Open to Public Inspection.</b>
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

<b>A</b> Name of plan <u>EMPLOYEE STOCK OWNERSHIP PLAN OF LAKESHORE BANCORP, INC.</u>	<b>B</b> Three-digit plan number (PN) ▶	<u>001</u>
<b>C</b> Plan sponsor's name as shown on line 2a of Form 5500 <u>LAKE SHORE BANCORP INC.</u>	<b>D</b> Employer Identification Number (EIN) <u>20-4729288</u>	

<b>Part I</b>	<b>Distributions</b>
---------------	----------------------

**All references to distributions relate only to payments of benefits during the plan year.**

**1** Total value of distributions paid in property other than in cash or the forms of property specified in the instructions..... 

1		0
---	--	---

**2** Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits):  
 EIN(s): 16-1065416

**Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.**

**3** Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year..... 

3	
---	--

<b>Part II</b>	<b>Funding Information</b> (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)
----------------	---

**4** Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? .....  Yes  No  N/A  
**If the plan is a defined benefit plan, go to line 8.**

**5** If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. **Date:** Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_  
**If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.**

<b>6 a</b> Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived) .....	<b>6a</b>	
<b>b</b> Enter the amount contributed by the employer to the plan for this plan year .....	<b>6b</b>	
<b>c</b> Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount).....	<b>6c</b>	

**If you completed line 6c, skip lines 8 and 9.**

**7** Will the minimum funding amount reported on line 6c be met by the funding deadline?.....  Yes  No  N/A

**8** If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? .....  Yes  No  N/A

<b>Part III</b>	<b>Amendments</b>
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**9** If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box.....  Increase  Decrease  Both  No

<b>Part IV</b>	<b>ESOPs</b> (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.
----------------	---

**10** Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan? .....  Yes  No

**11 a** Does the ESOP hold any preferred stock? .....  Yes  No

**b** If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.) .....  Yes  No

**12** Does the ESOP hold any stock that is not readily tradable on an established securities market? .....  Yes  No

**Part V Additional Information for Multiemployer Defined Benefit Pension Plans**

**13** Enter the following information for each employer that (1) contributed more than 5% of total contributions to the plan during the plan year or (2) was one of the top-ten highest contributors (measured in dollars). See instructions. Complete as many entries as needed to report all applicable employers.

**a** Name of contributing employer \_\_\_\_\_

**b** EIN \_\_\_\_\_ **c** Dollar amount contributed by employer \_\_\_\_\_

**d** Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box  and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

**e** Contribution rate information (If more than one rate applies, check this box  and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) \_\_\_\_\_

(2) Base unit measure:  Hourly  Weekly  Unit of production  Other (specify): \_\_\_\_\_

**a** Name of contributing employer \_\_\_\_\_

**b** EIN \_\_\_\_\_ **c** Dollar amount contributed by employer \_\_\_\_\_

**d** Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box  and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

**e** Contribution rate information (If more than one rate applies, check this box  and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) \_\_\_\_\_

(2) Base unit measure:  Hourly  Weekly  Unit of production  Other (specify): \_\_\_\_\_

**a** Name of contributing employer \_\_\_\_\_

**b** EIN \_\_\_\_\_ **c** Dollar amount contributed by employer \_\_\_\_\_

**d** Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box  and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

**e** Contribution rate information (If more than one rate applies, check this box  and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) \_\_\_\_\_

(2) Base unit measure:  Hourly  Weekly  Unit of production  Other (specify): \_\_\_\_\_

**a** Name of contributing employer \_\_\_\_\_

**b** EIN \_\_\_\_\_ **c** Dollar amount contributed by employer \_\_\_\_\_

**d** Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box  and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

**e** Contribution rate information (If more than one rate applies, check this box  and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) \_\_\_\_\_

(2) Base unit measure:  Hourly  Weekly  Unit of production  Other (specify): \_\_\_\_\_

**a** Name of contributing employer \_\_\_\_\_

**b** EIN \_\_\_\_\_ **c** Dollar amount contributed by employer \_\_\_\_\_

**d** Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box  and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

**e** Contribution rate information (If more than one rate applies, check this box  and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) \_\_\_\_\_

(2) Base unit measure:  Hourly  Weekly  Unit of production  Other (specify): \_\_\_\_\_

**a** Name of contributing employer \_\_\_\_\_

**b** EIN \_\_\_\_\_ **c** Dollar amount contributed by employer \_\_\_\_\_

**d** Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box  and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

**e** Contribution rate information (If more than one rate applies, check this box  and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) \_\_\_\_\_

(2) Base unit measure:  Hourly  Weekly  Unit of production  Other (specify): \_\_\_\_\_

**14** Enter the number of deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:

<b>a</b> The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: <input type="checkbox"/> last contributing employer <input type="checkbox"/> alternative <input type="checkbox"/> reasonable approximation (see instructions for required attachment).....	<b>14a</b>	
<b>b</b> The plan year immediately preceding the current plan year. <input type="checkbox"/> Check the box if the number reported is a change from what was previously reported (see instructions for required attachment).....	<b>14b</b>	
<b>c</b> The second preceding plan year. <input type="checkbox"/> Check the box if the number reported is a change from what was previously reported (see instructions for required attachment).....	<b>14c</b>	

**15** Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:

<b>a</b> The corresponding number for the plan year immediately preceding the current plan year .....	<b>15a</b>	
<b>b</b> The corresponding number for the second preceding plan year .....	<b>15b</b>	

**16** Information with respect to any employers who withdrew from the plan during the preceding plan year:

<b>a</b> Enter the number of employers who withdrew during the preceding plan year .....	<b>16a</b>	
<b>b</b> If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers.....	<b>16b</b>	

**17** If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment .....

**Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans**

**18** If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment .....

**19** If the total number of participants is 1,000 or more, complete lines (a) and (b):

**a** Enter the percentage of plan assets held as:  
 Public Equity: \_\_\_\_\_% Private Equity: \_\_\_\_\_% Investment-Grade Debt and Interest Rate Hedging Assets: \_\_\_\_\_%  
 High-Yield Debt: \_\_\_\_\_% Real Assets: \_\_\_\_\_% Cash or Cash Equivalents: \_\_\_\_\_% Other: \_\_\_\_\_%

**b** Provide the average duration of the Investment-Grade Debt and Interest Rate Hedging Assets:  
 0-5 years  5-10 years  10-15 years  15 years or more

**20 PBGC missed contribution reporting requirements.** If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20.

**a** Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero?  Yes  No

**b** If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box:  
 Yes.  
 No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date.  
 No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date.  
 No. Other. Provide explanation: \_\_\_\_\_

**Part VII IRS Compliance Questions**

**21a** Does the plan satisfy the coverage and nondiscrimination tests of Code sections 410(b) and 401(a)(4) by combining this plan with any other plans under the permissive aggregation rules?  Yes  No

**21b** If this is a Code section 401(k) plan, check all boxes that apply to indicate how the plan is intended to satisfy the nondiscrimination requirements for employee deferrals and employer matching contributions (as applicable) under Code sections 401(k)(3) and 401(m)(2).  
 Design-based safe harbor method  
 "Prior year" ADP test  
 "Current year" ADP test  
 N/A

**22** If the plan sponsor is an adopter of a pre-approved plan that received a favorable IRS Opinion Letter, enter the date of the Opinion Letter \_\_\_/\_\_\_/\_\_\_\_ (MM/DD/YYYY) and the Opinion Letter serial number \_\_\_\_\_.

# **Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.**

Financial Statements and  
Supplementary Information

December 31, 2024 and 2023

# **Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.**

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December 31, 2024 and 2023

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## INDEPENDENT AUDITOR'S REPORT

To the Participants and Plan Administrator  
Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.  
Dunkirk, New York

### *Scope and Nature of the ERISA Section 103(a)(3)(C) Audit*

We have performed audits of the financial statements of the Employee Stock Ownership Plan of Lake Shore Bancorp, Inc. (the Plan), an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), as permitted by ERISA Section 103(a)(3)(C) (ERISA Section 103(a)(3)(C) audit). The financial statements comprise the statements of net assets available for benefits as of December 31, 2024 and 2023, and the related statement of changes in net assets available for benefits for the year ended December 31, 2024, and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audit of the Plan's financial statements performed in accordance with ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's (DOL) Rules and Regulations for Reporting and Disclosure under ERISA. As permitted by ERISA Section 103(a)(3)(C), our audit need not extend to any statements or information related to assets held for investment of the Plan (investment information) by a bank or similar institution or insurance carrier that is regulated, supervised, and subject to periodic examination by a state or federal agency, provided that the statements or information regarding assets so held are prepared and certified to by the bank or similar institution or insurance carrier in accordance with 29 CFR 2520.103-5 of the DOL's Rules and Regulations for Reporting and Disclosure under ERISA (qualified institution).

Management has obtained certifications from a qualified institution as of December 31, 2024 and 2023, and for the year ended December 31, 2024, stating that the certified investment information, as described in Note 11 to the financial statements, is complete and accurate.

### *Opinion*

In our opinion, based on our audits and on the procedures performed as described in the Auditor's Responsibilities for the Audit of the Financial Statements section:

- The amounts and disclosures in the accompanying financial statements, other than those agreed to or derived from the certified investment information, are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America (U.S. GAAP).
- The information in the accompanying financial statements related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

### *Basis for Opinion*

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Plan and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and

appropriate to provide a basis for our ERISA Section 103(a)(3)(C) audit opinion.

### ***Responsibilities of Management for the Financial Statements***

Management is responsible for the preparation and fair presentation of the financial statements in accordance with U.S. GAAP, and for the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error. Management's election of the ERISA Section 103(a)(3)(C) audit does not affect management's responsibility for the financial statements.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern within one year after the date the financial statements are issued or available to be issued.

Management is also responsible for maintaining a current plan instrument, including all plan amendments, administering the Plan, and determining that the Plan's transactions that are presented and disclosed in the financial statements are in conformity with the Plan's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

### ***Auditor's Responsibilities for the Audit of the Financial Statements***

Except as described in the Scope and Nature of the ERISA Section 103(a)(3)(C) Audit section of our report, our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for a reasonable period of time.

Our audits did not extend to the certified investment information, except for obtaining and reading the certification, comparing the certified investment information with the related information presented and disclosed in the financial statements, and reading the disclosures relating to the certified investment information to assess whether they are in accordance with the presentation and disclosure requirements of U.S. GAAP.

Accordingly, the objective of an ERISA Section 103(a)(3)(C) audit is not to express an opinion about whether the financial statements as a whole are presented fairly, in all material respects, in accordance with U.S. GAAP.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings and certain internal control-related matters that we identified during the audit.

### ***Other Matters***

#### ***Supplemental Schedule Required by ERISA***

The supplemental Schedule of Assets (held at end of year) as of December 31, 2024 is presented for purposes of additional analysis and is not a required part of the financial statements but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information included in the supplemental schedule, other than that agreed to or derived from the certified investment information, has been subjected to auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with GAAS. For information included in the supplemental schedule that agreed to or is derived from the certified investment information, we compared such information to the related certified investment information.

In forming our opinion on the supplemental schedule, we evaluated whether the supplemental schedule, other than the information agreed to or derived from the certified investment information, including its form and content, is presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

In our opinion:

- The form and content of the supplemental schedule, other than the information in the supplemental schedule that agreed to or is derived from the certified investment information, are presented, in all material respects, in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.
- The information in the supplemental schedule related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

*Yount, Hyde & Barbours, P.C.*

Richmond, Virginia  
October 15, 2025

## Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.

Statements of Net Assets Available for Benefits

December 31, 2024 and 2023

	2024			2023		
	<u>Allocated</u>	<u>Unallocated</u>	<u>Total</u>	<u>Allocated</u>	<u>Unallocated</u>	<u>Total</u>
<b>Assets</b>						
Investments, at fair value:						
Cash and cash equivalents	\$ 292	\$ 229	\$ 521	\$ 400	\$ 228	\$ 628
Common collective trust fund	198,894	-	198,894	208,671	-	208,671
Common stock	<u>908,632</u>	<u>1,308,560</u>	<u>2,217,192</u>	<u>877,109</u>	<u>1,207,845</u>	<u>2,084,954</u>
Total investments, at fair value	1,107,818	1,308,789	2,416,607	1,086,180	1,208,073	2,294,253
Transfers receivable	<u>109,027</u>	<u>-</u>	<u>109,027</u>	<u>92,919</u>	<u>-</u>	<u>92,919</u>
Total assets	<u>1,216,845</u>	<u>1,308,789</u>	<u>2,525,634</u>	<u>1,179,099</u>	<u>1,208,073</u>	<u>2,387,172</u>
<b>Liabilities</b>						
Loan payable	-	1,223,708	1,223,708	-	1,293,940	1,293,940
Transfers payable	<u>-</u>	<u>109,027</u>	<u>109,027</u>	<u>-</u>	<u>92,919</u>	<u>92,919</u>
Total liabilities	<u>-</u>	<u>1,332,735</u>	<u>1,332,735</u>	<u>-</u>	<u>1,386,859</u>	<u>1,386,859</u>
Net assets available for benefits	<u>\$ 1,216,845</u>	<u>\$ (23,946)</u>	<u>\$ 1,192,899</u>	<u>\$ 1,179,099</u>	<u>\$ (178,786)</u>	<u>\$ 1,000,313</u>

See notes to financial statements

## Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.

Statement of Changes in Net Assets Available for Benefits

Year ended December 31, 2024

	<u>Allocated</u>	<u>Unallocated</u>	<u>Total</u>
<b>Additions</b>			
Investment income:			
Net appreciation in fair value of investments	\$ 140,324	\$ 193,634	\$ 333,958
Interest and dividends	36,546	-	36,546
Net investment gain	176,870	193,634	370,504
Employer contribution	-	167,278	167,278
Allocation of 7,935 shares of common stock, at fair value	109,027	-	109,027
Total additions	<u>285,897</u>	<u>360,912</u>	<u>646,809</u>
<b>Deductions</b>			
Benefits paid to participants	248,151	-	248,151
Interest expense	-	97,045	97,045
Allocation of 7,935 shares of common stock, at fair value	-	109,027	109,027
Total deductions	<u>248,151</u>	<u>206,072</u>	<u>454,223</u>
Net increase	<u>37,746</u>	<u>154,840</u>	<u>192,586</u>
<b>Net Assets Available for Benefits</b>			
Beginning of year	1,179,099	(178,786)	1,000,313
End of year	<u>\$ 1,216,845</u>	<u>\$ (23,946)</u>	<u>\$ 1,192,899</u>

See notes to financial statements

# Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.

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Notes to Financial Statements  
December 31, 2024 and 2023

## 1. Description of Plan

The following description of the Employee Stock Ownership Plan of Lake Shore Bancorp, Inc. (the “Plan”) provides only general information. Participants should refer to the plan document for a more complete description of the Plan’s provisions.

### General

The Plan covers substantially all employees of Lake Shore Bancorp, Inc., a federal corporation (“Lake Shore Federal Bancorp”), and affiliate, Lake Shore Savings Bank, (the “Company”) who have completed one year of service (worked at least 1,000 hours) and attained age twenty-one.

The Plan operates, in relevant part, as a leveraged employee stock ownership plan (“ESOP”), and is designed to comply with Section 4975(e)(7) and the regulations thereunder of the Internal Revenue Code (“IRC”) and is subject to the applicable provisions of the Employee Retirement Income Security Act of 1974 (“ERISA”). The Plan’s assets are administered by Benefit Plans Administrative Services, LLC, acting as agent for Hand Benefits & Trust Company, the trustee of the Plan.

The Plan purchased common stock of the Company using the proceeds of a borrowing from Lake Shore Federal Bancorp, Inc. (see Note 5) and holds the stock in a trust established under the Plan. The borrowing is to be repaid over a period of thirty years by fully tax-deductible Company contributions. As the Plan makes each payment, an appropriate percentage of stock will be allocated to eligible employees’ accounts in accordance with applicable regulations under the IRC.

The borrowing is collateralized by the unallocated shares of Company common stock and is guaranteed by the Company. The lender has no rights against shares once they are allocated under the Plan. Accordingly, the financial statements of the Plan as of December 31, 2024 and 2023 and for the year ended December 31, 2024 present separately the assets and liabilities and changes therein pertaining to (a) the accounts of employees with vested rights in allocated stock (allocated), and (b) stock not yet allocated to employees (unallocated).

### Contributions

The Company is obligated to make contributions to the Plan which, when aggregated with the Plan’s dividend and interest earnings, equal the amount necessary to enable the Plan to make its regularly scheduled payments of principal and interest due on its term loan. During 2024, the Company made such a contribution in the amount of \$167,278. There were no discretionary contributions for the year ended December 31, 2024.

### Payment of Benefits

On termination of service for any reason, a participant will receive a lump-sum distribution of their vested balance in the form of cash, shares of Company common stock, or both, with any fractional shares being paid out in cash. Terminating participants with a vested balance of less than \$1,000 receive a lump-sum payment in cash equal to the value of the shares held.

### Voting Rights

Each participant is entitled to exercise voting rights attributable to the shares allocated to his or her account and is notified by the transfer agent prior to the time that such rights are to be exercised. The trustee is not permitted to vote any allocated shares for which instructions have not been given by a participant. The trustee is required, however, to vote any unallocated shares in the same proportion as the votes of the allocated shares.

# Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.

Notes to Financial Statements  
December 31, 2024 and 2023

## Participant Accounts

The Plan is a defined contribution plan under which a separate individual account is established for each participant. Each participant's account is credited as of the last day of each plan year with an allocation of shares of the Company's common stock released by the trustee from the unallocated account. Only those participants who are eligible employees of the Company as of the last day of the plan year will receive an allocation. Allocations are based on a participant's eligible compensation, relative to total eligible compensation.

## Vesting

Vesting in the Company's contributions and earnings thereon is based on years of service and hours worked. A participant is 100 percent vested (a) after attainment of normal retirement age of 65; (b) upon death or disability; or (c) according to the following schedule:

Years of Service	Percentage
Less than 2	0%
2	20
3	40
4	60
5	80
6	100%

## Diversification

Diversification is offered to qualified participants close to retirement so that they may have the opportunity to move part of the value of their investment in Company common stock into investments which are more diversified.

Diversification is offered to each qualified participant over a six-year period. In the first 90 days of each of the first five years, a participant may diversify up to 25 percent of the shares allocated to his or her account, less any shares previously diversified. In the sixth year, the percentage changes to 50 percent. Participants who elect to diversify may either (1) receive the stock, (2) rollover the stock into a separate qualified plan, or (3) liquidate the stock and have the cash transferred to the Lake Shore Savings Bank 401(k) Savings Plan, which offers at least three alternative investment options for diversification.

## Participant Accounts and Forfeitures

Company contributions are allocated to each participant's account based upon the relation of the participant's eligible compensation to total eligible compensation for the plan year. Plan earnings are allocated to each participant's account based on the ratio of the participant's beginning of the year account balance to all participants' beginning of the year account balances. During 2024, forfeitures of terminated non-vested shares equal to \$2,861 were allocated to the remaining participants in the same manner as Company contributions are allocated. The forfeited non-vested share balance totaled \$263 and \$3,025 at December 31, 2024 and 2023, respectively.

## Put Option

The Company stock is publicly traded. However, under federal income tax regulations, if the Company stock that is held by the Plan and its participants is not readily determinable on an established market, or is subject to trading limitations, then the participant has the right to exercise a put option. The put option will permit the participant to sell the employer securities to the Company, at any time during two option

# **Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.**

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Notes to Financial Statements  
December 31, 2024 and 2023

periods, at the current fair market value. The option periods are either within the 60 day period that begins on the date on which the shares to be purchased by the Company were distributed from the Plan or within the 60 day period that begins on the first day of the plan year immediately following the plan year in which the shares to be purchased by the Company are distributed from the Plan. If a participant (beneficiary) exercises his put option, the Company must purchase the Company securities at fair market value. The purpose of the put option is to ensure that the participant has the ability to ultimately obtain cash.

## **2. Summary of Significant Accounting Policies**

### **Basis of Accounting**

The accompanying financial statements of the Plan are prepared using the accrual basis of accounting.

### **Use of Estimates**

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein, and disclosures of contingent assets and liabilities. Actual results could differ from those estimates.

### **Investment Valuation and Income Recognition**

Investments are reported at fair value. Fair value is the price 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. The Plan's management determines the Plan's valuation policies utilizing information provided by the trustee. See Note 3 for discussion of fair value measurements.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation includes the gains and losses on investments bought and sold as well as held during the year.

### **Expenses**

Certain expenses of maintaining the Plan are paid by the Plan, unless otherwise paid by the Company. Expenses that are paid by the Company are excluded from these financial statements. Certain administrative functions are performed by officers or employees of the Company. No such officer or employee receives compensation from the Plan. Investment related expenses are included in net appreciation in fair value of investments.

### **Payment of Benefits**

Benefits are recorded when paid.

# Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.

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Notes to Financial Statements  
December 31, 2024 and 2023

## Subsequent Events

The Plan has evaluated subsequent events for recognition or disclosure through October 15, 2025, the date the financial statements were available to be issued. Refer to Note 10 - Subsequent Events for additional information.

## 3. Fair Value Measurements

The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). The three levels of the fair value hierarchy under authoritative guidance are described as follows:

Level 1 - Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access.

Level 2 - Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly, such as:

- quoted prices for similar assets or liabilities in active markets;
- quoted prices for identical or similar assets or liabilities in inactive markets;
- inputs other than quoted prices that are observable for the asset or liability; or
- inputs that are derived principally from or corroborated by observable market data by correlation or other means.

If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.

Level 3 - Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The asset or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs.

Following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in the methodologies used at December 31, 2024 and 2023.

- Cash and cash equivalents are valued at carrying cost which approximates fair value.
- Company's common stock is valued at the quoted market price on the last business day of the year.
- The common collective trust fund is valued at the net asset value ("NAV") of units of a bank collective trust. The NAV, as provided by the fund's trustee, is used as a practical expedient to estimate fair value. The NAV is based on the fair value of the underlying investments held by the fund less its liabilities. This practical expedient is not used when it is determined to be probable

## Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.

Notes to Financial Statements  
December 31, 2024 and 2023

that the fund will sell the investment for an amount different than the reported NAV. Participant transactions (purchases and sales) may occur daily. Were the Plan to initiate a full redemption of the collective trust, the investment adviser reserves the right to temporarily delay withdrawal from the trust in order to ensure that securities liquidations will be carried out in an orderly business manner.

The methods described above may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, while the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

The following tables set forth by level, within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2024 and 2023:

	Assets at Fair Value as of December 31, 2024			
	Level 1	Level 2	Level 3	Total
Cash and cash equivalents	\$ 521	\$ -	\$ -	\$ 521
Common stock	2,217,192	-	-	2,217,192
	<u>\$ 2,217,713</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 2,217,713</u>
Common collective trust fund at net asset value <sup>(a)</sup>				<u>\$ 198,894</u>
Total assets at fair value				<u>\$ 2,416,607</u>

	Assets at Fair Value as of December 31, 2023			
	Level 1	Level 2	Level 3	Total
Cash and cash equivalents	\$ 628	\$ -	\$ -	\$ 628
Common stock	2,084,954	-	-	2,084,954
	<u>\$ 2,085,582</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 2,085,582</u>
Common collective trust fund at net asset value <sup>(a)</sup>				<u>\$ 208,671</u>
Total assets at fair value				<u>\$ 2,294,253</u>

<sup>(a)</sup> Certain investments that were measured at NAV per share (or its equivalent) have not been classified in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the line items presented in the Statements of Net Assets Available for Benefits.

Plan management evaluated the significance of transfers between levels based upon the nature of the financial instrument and size of the transfer relative to total net assets available for benefits. For the year ended December 31, 2024, there were no significant transfers in or out of different levels.

## Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.

Notes to Financial Statements  
December 31, 2024 and 2023

### Investments Measured Using NAV per Share Practical Expedient

The following table summarizes investments for which fair value is measured using the NAV per share practical expedient as of December 31, 2024 and 2023. There are no participant redemption restrictions for these investments; the redemption notice period is applicable only to the Plan.

December 31, 2024	Fair Value	Unfunded Commitments	Redemption Frequency (if currently eligible)	Redemption Notice Period
Common collective trust fund	\$ 198,894	N/A	Daily	Daily
December 31, 2023	Fair Value	Unfunded Commitments	Redemption Frequency (if currently eligible)	Redemption Notice Period
Common collective trust fund	\$ 208,671	N/A	Daily	Daily

### 4. Investment Concentration

The following presents the Plan's investment in the Company's common shares, which represents a significant concentration of the Plan's net assets available for benefits at December 31, 2024 and 2023:

	2024		2023	
	Allocated	Unallocated	Allocated	Unallocated
Number of shares	66,117	95,219	74,903	103,154
Cost	\$ 710,460	\$ 1,023,176	\$ 804,866	\$ 1,108,442
Fair value	\$ 908,632	\$ 1,308,560	\$ 877,109	\$ 1,207,845

### 5. Loan Payable

In March 2006, the Plan entered into a loan agreement in the amount of \$2,557,967 with interest charged at an annual rate of 7.50%. The balance outstanding was \$1,223,708 at December 31, 2024 and \$1,293,940 at December 31, 2023.

The loan is collateralized by the Plan's unallocated shares of Company common stock. The unallocated shares of the Plan amounted to 95,219 shares with a fair market value of \$1,308,560 at December 31, 2024 and 103,154 shares with a fair market value of \$1,207,845 at December 31, 2023.

## Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.

Notes to Financial Statements  
December 31, 2024 and 2023

Scheduled principal repayments on the term loan are as follows:

Years ending December 31:	
2025	\$ 75,500
2026	81,162
2027	87,249
2028	93,793
2029	100,827
Thereafter	785,177
	<u>\$ 1,223,708</u>

### 6. Related Party and Party-In-Interest Transactions

The Plan invests in the common stock of the Company therefore, this transaction qualifies as a party-in-interest transaction. During the year ended December 31, 2024, the Plan sold 17,043 shares of Company common stock for total proceeds of \$238,072.

Certain of the Plan's investments are managed by Hand Benefits & Trust Company. Additionally, Hand Benefits & Trust Company, the trustee of the Plan, and Benefits Plan and Administrative Services, LLC (recordkeeper) are service providers to the Plan, and therefore, transactions with these parties also qualify as party-in-interest transactions.

### 7. Plan Termination

Although it has not expressed any intent to do so, the Company has the right to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. Upon such termination of the Plan, the interest of each participant in the trust fund will be distributed to such participant or his or her beneficiary at the time prescribed by the Plan terms and the IRC. Upon termination of the Plan, the Company's Employee Benefits Administration Committee shall direct the trustee to pay all liabilities and expenses of the trust fund and to sell shares of financed Company common stock held in the loan suspense account to the extent it determines such sale to be necessary in order to repay the loan. In the event of Plan termination, participants will become 100 percent vested in their accounts.

### 8. Tax Status

The Internal Revenue Service ("IRS") has determined and informed the Company that the Plan and related trust are designed in accordance with applicable sections of the IRC. Although the Plan has been amended since receiving the determination letter, the Plan administrator believes that the Plan is designed and is currently being operated in compliance with the applicable requirements of the IRC and therefore believes that the Plan is qualified and the related trust is tax exempt.

In accordance with accounting principles generally accepted in the United States of America, Plan management is required to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the applicable taxing authorities. The Plan Administrator has analyzed the tax positions taken by the Plan, and has concluded that as of December 31, 2024, there are no uncertain positions taken or expected to be taken that would require recognition of a liability (or asset) or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

## **Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.**

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Notes to Financial Statements  
December 31, 2024 and 2023

### **9. Risks and Uncertainties**

The Plan invests in various investment securities. Investment securities are exposed to various risks, such as interest rate, market and credit risks. Market risks include global events which could impact the value of investment securities, such as a pandemic or international conflict. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect participants' account balances and the amounts reported in the Statements of Net Assets Available for Benefits. See Note 4 above regarding Investment Concentration.

### **10. Subsequent Events**

On January 27, 2025, Lake Shore, MHC, the former parent mutual holding company of Lake Shore Federal Bancorp, adopted a Plan of Conversion and Reorganization (the "Conversion Plan") pursuant to which Lake Shore, MHC, would undertake a "second-step" conversion and Lake Shore Savings Bank, a federally chartered savings bank, the wholly-owned subsidiary of Lake Shore Federal Bancorp, would reorganize from the two-tier mutual holding company structure to the fully-public stock holding company structure.

Pursuant to the Conversion Plan, (i) Lake Shore Savings Bank became the wholly-owned subsidiary of Lake Shore Bancorp, converted its charter to a New York chartered commercial bank, and was renamed as Lake Shore Bank, (ii) the shares of common stock of Lake Shore Federal Bancorp owned by persons other than Lake Shore, MHC (the shares owned by Lake Shore, MHC were canceled) were converted into shares of common stock of Lake Shore Bancorp based on an exchange ratio designed to preserve the percentage ownership interests of such persons (excluding shares of common stock of Lake Shore Bancorp purchased in the stock offering described below and cash received in lieu of issuance of fractional shares of common stock of Lake Shore Bancorp, and as adjusted to reflect certain assets held by Lake Shore, MHC), and (iii) Lake Shore Bancorp offered and sold shares of common stock, representing the ownership interest of Lake Shore, MHC in Lake Shore Federal Bancorp, in a subscription offering. The number and price of shares of Lake Shore Bancorp common stock sold in the offering and the exchange ratio were based on Lake Shore Bancorp's pro forma market value on a fully converted basis, as determined by an independent appraisal.

The Conversion Plan, including the conversion and offering were consummated on July 18, 2025. The conversion was consummated through the merger of Lake Shore, MHC with and into Lake Shore Federal Bancorp, followed by the merger of Lake Shore Federal Bancorp with and into Lake Shore Bancorp. In the subscription offering, Lake Shore Bancorp raised gross proceeds of \$49.5 million by selling 4,950,460 shares of its common stock (approximately the midpoint of the offering range) at \$10.00 per share to depositors of the Bank.

As part of the conversion transaction, each outstanding share of Lake Shore Federal Bancorp common stock owned by the public stockholders of Lake Shore Federal Bancorp (stockholders other than Lake Shore, MHC) as of the closing date were converted into shares of Lake Shore Bancorp's common stock based on an exchange ratio of 1.3549 shares of Lake Shore Bancorp's common stock for each share of Lake Shore Federal Bancorp common stock so that Lake Shore Federal Bancorp's existing public stockholders would own approximately the same percentage of Lake Shore Bancorp's common stock as they owned of Lake Shore Federal Bancorp's common stock immediately prior to the conversion. A total of 7,825,501 shares of common stock were outstanding following the completion of the stock offering.

In connection with the conversion and offering on July 18, 2025, the Plan's 87,284 unallocated and 71,557 allocated shares of Lake Shore Federal Bancorp were converted at an exchange ratio of 1.3549, into 118,260 unallocated and 96,953 allocated shares of Lake Shore Bancorp.

## **Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.**

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Notes to Financial Statements  
December 31, 2024 and 2023

Additionally, the Plan purchased 396,036 shares of Lake Shore Bancorp common stock, at a price of \$10.00 per share, for an aggregate purchase price of \$3,960,360, using the proceeds from a borrowing from Lake Shore Bancorp. The balance of the existing loan including accrued interest, as further described in Note 5 – Loan Payable, amounted to \$1,274,185 as of July 18, 2025, and was repaid in full and included within the new borrowing from Lake Shore Bancorp. The new loan, in the amount of \$5,234,545, carries interest at a fixed rate equal to the Prime Rate at the date of execution, or 7.50%, and will be repaid in equal annual payments over a 25-year period. The loan is collateralized by the Plan’s unallocated shares of the Company common stock. Subsequent to the transaction, the Plan had 514,296 unallocated shares and 96,953 allocated shares of common stock.

### **11. Information Certified by Trustee**

The Plan administrator has elected the method of compliance as permitted by 29 CFR 2520.103-8 of the Department of Labor’s Rules and Regulations for Reporting and Disclosure under ERISA for 2024 and 2023. Accordingly, Hand Benefits & Trust Company, the trustee of the Plan, has certified to the completeness and accuracy of all investments reported in the accompanying Statements of Net Assets Available for Benefits as of December 31, 2024 and 2023 and the supplemental Schedule H, Line 4(i) - Schedule of Assets (Held at End of Year) as of December 31, 2024, and the related investment activity reported in the Statement of Changes in Net Assets Available for Benefits for the year ended December 31, 2024.

## Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.

EIN: 16-0516470 Plan Number: 001

Schedule H, Line 4(i) – Schedule of Assets (Held at End of Year)

December 31, 2024

<b>(a)</b>	<b>Identity of Issuer, Borrower, Lessor or Similar Party (b)</b>	<b>Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value (c)</b>	<b>Cost (d)</b>	<b>Current Value (e)</b>
*	Lake Shore Bancorp, Inc.	Common stock	\$ 1,733,636	\$ 2,217,192
	Federated Capital Preservation Fund	Common collective trust fund	198,894	198,894
		Cash and cash equivalents	<u>521</u>	<u>521</u>
			<u>\$ 1,933,051</u>	<u>\$ 2,416,607</u>

\* A party in interest as defined by ERISA

The information above has been certified by Hand Benefits & Trust Company, the trustee of the Plan, to be complete and accurate.

## Employee Stock Ownership Plan of Lake Shore Bancorp, Inc.

EIN: 16-0516470 Plan Number: 001

Schedule H, Line 4(i) – Schedule of Assets (Held at End of Year)

December 31, 2024

<b>(a)</b>	<b>Identity of Issuer, Borrower, Lessor or Similar Party (b)</b>	<b>Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value (c)</b>	<b>Cost (d)</b>	<b>Current Value (e)</b>
*	Lake Shore Bancorp, Inc.	Common stock	\$ 1,733,636	\$ 2,217,192
	Federated Capital Preservation Fund	Common collective trust fund	198,894	198,894
		Cash and cash equivalents	<u>521</u>	<u>521</u>
			<u>\$ 1,933,051</u>	<u>\$ 2,416,607</u>

\* A party in interest as defined by ERISA

The information above has been certified by Hand Benefits & Trust Company, the trustee of the Plan, to be complete and accurate.