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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM 11-K

FOR ANNUAL REPORTS OF EMPLOYEE STOCK PURCHASE, SAVINGS  
AND SIMILAR PLANS PURSUANT TO SECTION 15(d) OF THE  
SECURITIES EXCHANGE ACT OF 1934

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2018

OR

TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from \_\_\_\_\_ to \_\_\_\_\_.

Commission File Number: 001-37886

A. Full title of the plan and the address of the plan, if different from that of the issuer named below:

**CAPSTAR BANK 401(k) PROFIT SHARING PLAN**

B. Name of the issuer of the securities held pursuant to the plan and the address of its principal executive office:

**CAPSTAR FINANCIAL HOLDINGS, INC.**  
**1201 Demonbreun Street, Suite 700**  
**Nashville, Tennessee 37203**

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**CAPSTAR BANK 401(k) PROFIT SHARING PLAN  
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## Report of Independent Registered Public Accounting Firm

Audit Committee of the Board of Directors and Plan Administrator  
CapStar Bank 401(k) Profit Sharing Plan  
Nashville, Tennessee

### Opinion on the Financial Statements

We have audited the accompanying statements of net assets available for benefits of the CapStar Bank 401(k) Profit Sharing (Plan) as of December 31, 2018 and 2017, and the related statement of changes in net assets available for benefits for the year ended December 31, 2018, and the related notes (collectively referred to as the “financial statements”). In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2018 and 2017, and the changes in net assets available for benefits for the year ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

### Basis of Opinion

These financial statements are the responsibility of the Plan’s management. Our responsibility is to express an opinion on these financial statements based on our audits.

We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) and are required to be independent with respect to the Plan in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the Public Company Accounting Oversight Board (United States).

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Plan is not required to have, nor were we engaged to perform, an audit of its 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 Plan’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 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.

### Report on Supplemental Information

The supplemental information in the accompanying schedule of assets (held at end of year) as of December 31, 2018, has been subjected to audit procedures performed in conjunction with the audit of the Plan’s financial statements. The supplemental schedule is the responsibility of the Plan’s management. Our audit procedures included determining whether the supplemental schedule reconciles to the financial statements or the underlying accounting and other records, as applicable, and performing procedures to test the completeness and accuracy of the information presented in the supplemental schedule. In forming our opinion on the supplemental schedule, we evaluated whether the supplemental schedule, including its form and content, is presented in conformity with the Department of Labor’s Rules and Regulations for Reporting and Disclosure under the *Employee Retirement Income Security Act of 1974*. In our opinion, the schedule of assets (held at end of year) is fairly stated, in all material respects, in relation to the basic financial statements taken as a whole.

/s/ **BKD, LLP**

We have served as the Plan’s auditor since 2014.

Evansville, Indiana  
June 24, 2019

**CAPSTAR BANK 401(k) PROFIT SHARING PLAN**  
**STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS**  
**DECEMBER 31, 2018 AND 2017**

	<b>2018</b>	<b>2017</b>
<b>Assets</b>		
Investments, at fair value	\$ 10,693,917	\$ 9,855,472
Cash	75,874	58,728
Receivables:		
Participant contributions	1,984	—
Employer contributions	1,447	—
Notes receivable from participants	58,086	36,539
Net assets available for benefits	\$ 10,831,308	\$ 9,950,739

*See Notes to Financial Statements*

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**CAPSTAR BANK 401(k) PROFIT SHARING PLAN**  
**STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS**  
**YEAR ENDED DECEMBER 31, 2018**

Investment loss:	
Net depreciation in fair value of investments	\$ (1,156,301)
Interest and dividends	437,028
Net investment loss	<u>(719,273)</u>
Interest income on notes receivable from participants	1,410
Contributions:	
Participant	1,329,545
Employer	634,054
Rollover	57,021
	<u>2,020,620</u>
Total additions	<u>1,302,757</u>
Deductions:	
Benefits paid to participants	418,800
Administrative expenses	3,388
Total deductions	<u>422,188</u>
Net increase	880,569
Net assets available for benefits, beginning of year	<u>9,950,739</u>
Net assets available for benefits, end of year	<u>\$ 10,831,308</u>

**CAPSTAR BANK 401(k) PROFIT SHARING PLAN**  
**NOTES TO FINANCIAL STATEMENTS**  
**DECEMBER 31, 2018 AND 2017**

**Note 1: Description of the Plan**

The following description of the CapStar Bank 401(k) Profit Sharing Plan (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 is a defined contribution plan sponsored by CapStar Bank (Company) for the benefit of its full-time employees and part-time employees whose regularly scheduled hours during each computation period exceed 1,000 hours. The Plan is subject to the provisions of the *Employee Retirement Income Security Act of 1974* (ERISA). Newport Trust Company is the trustee of the Plan and serves as Plan Custodian.

Effective April 30, 2018, the Plan allows participants to direct a portion of their investments into a fund that is invested in the common stock of CapStar Financial Holdings, Inc. (CapStar). The Plan sponsor has placed a limit on participant investments into this fund whereby no more than 10% of a participant's account balance may be invested in this fund. Investments in the Plan, including CapStar common stock, have been registered with the Securities and Exchange Commission (SEC).

***Contributions***

The Plan permits eligible employees through a salary deferral election to have the Company make annual contributions in amounts up to the maximum amount allowed by law. Employee Roth, rollover and catch-up contributions are also permitted. The Company makes safe-harbor nonelective contributions to each eligible participant in an amount equal to 3% of the employee's eligible compensation. The Company may elect to make additional matching contributions or profit-sharing contributions equal to a discretionary percentage. No discretionary matching contributions or profit-sharing contributions were made to the Plan for the year ended December 31, 2018. Contributions are subject to certain limitations.

***Participant Investment Account Options***

Each participant has the option of directing his or her contributions into any of the various investment options offered by the Plan and may change the allocation daily.

***Participant Accounts***

Each participant's account is credited with the participant's contribution, the Company's contribution and Plan earnings and is charged with an allocation of administrative expenses. Allocations are based on participant earnings or account balances, as defined. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

***Vesting***

Participants are immediately vested in their voluntary contributions and employer safe harbor nonelective contributions, plus earnings thereon. Vesting in the Company's discretionary matching and profit-sharing contribution portions of their accounts, plus earnings thereon, is based on employees' service. A participant is fully vested in employer discretionary matching and profit-sharing contributions, if applicable, after four years of service. Forfeitures, if applicable, are used to pay administrative expenses or to reduce any employer contribution.

***Notes Receivable from Participants***

Participants may borrow from their fund accounts a minimum of \$1,000, up to a maximum equal to the lesser of \$50,000 or 50% of their account balance. The loans are secured by the balance in the participant's account. The loan interest rate, determined quarterly, is set at 1% above the prime rate, as defined. Principal and interest is paid ratably through payroll deductions.

***Payment of Benefits***

Upon termination of service, a participant may elect to receive a lump-sum amount equal to the value of his or her account.

**CAPSTAR BANK 401(k) PROFIT SHARING PLAN**  
**NOTES TO FINANCIAL STATEMENTS**  
**DECEMBER 31, 2018 AND 2017**

***Forfeited Accounts***

At December 31, 2018 and 2017, the Plan had no forfeited nonvested account balances.

**Note 2: Summary of Significant Accounting Policies**

***Basis of Accounting***

The accompanying financial statements of the Plan are prepared on 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 net assets and changes in net assets and disclosure of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

***Investment Valuation and Income Recognition***

Investments are reported at fair value. Quoted market prices, if available, are used to value investments. Mutual funds are valued at quoted market prices of shares held by the Plan at year-end. Common stock within the unitized stock fund is valued at the closing price reported on the active market on which the individual securities are traded. Short-term cash investments within the unitized stock fund are valued at cost, which approximates fair value. The Plan's interest in the collective trust is valued at the net asset value (NAV) of units of the collective trust. The NAV is used as a practical expedient to estimate fair value of the collective trust investment.

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 depreciation includes the Plan's gains and losses on investments bought and sold, as well as held during the year.

***Notes Receivable from Participants***

Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Delinquent participant loans are reclassified as distributions based upon the terms of the Plan Document.

***Payment of Benefits***

Benefit payments to participants are recorded upon distribution.

***Administrative Expenses***

Administrative expenses may be paid by the Company or the Plan, at the Company's discretion.

**Note 3: Related-Party and Party-in-Interest Transactions**

Party-in-interest transactions include those with fiduciaries or employees of the Plan, any person who provides services to the Plan, an employer whose employees are covered by the Plan, an employee organization whose members are covered by the Plan, a person who owns 50% or more of such an employer or employee association or relatives of such persons.

The Plan paid \$3,388 of fees to the Plan recordkeeper during the year ended December 31, 2018. The Company provides certain administrative services at no cost to the Plan.

**CAPSTAR BANK 401(k) PROFIT SHARING PLAN**  
**NOTES TO FINANCIAL STATEMENTS**  
**DECEMBER 31, 2018 AND 2017**

**Note 4: Disclosures About Fair Value of Plan Assets and Liabilities**

Fair value is the price that would be received by the Plan for an asset or paid by the Plan to transfer a liability (an exit price) in an orderly transaction between market participants on the measurement date in the Plan's principal or most advantageous market for the asset or liability. Fair value measurements must maximize the use of observable inputs and minimize the use of unobservable inputs. There is a hierarchy of three levels of inputs that may be used to measure fair value:

- Level 1** Quoted prices in active markets for identical assets or liabilities
- Level 2** Observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities
- Level 3** Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities

**Recurring Measurements**

The following table presents the fair value measurements of assets recognized in the accompanying statements of net assets available for benefits measured at fair value on a recurring basis and the level within the fair value hierarchy in which the fair value measurements fall at December 31, 2018 and 2017:

	Fair value measurements using			Total
	Quoted prices in active markets for identical assets (Level 1)	Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)	
<b>December 31, 2018</b>				
Mutual funds	\$ 9,613,177	\$ —	\$ —	\$ 9,613,177
Unitized stock fund	26,261	—	—	26,261
Total assets in fair value hierarchy	<u>9,639,438</u>	<u>—</u>	<u>—</u>	9,639,438
Investments measured at net asset value (A):				
Collective trust fund				1,054,479
				<u>\$ 10,693,917</u>
<b>December 31, 2017</b>				
Mutual funds	\$ 9,047,184	\$ —	\$ —	\$ 9,047,184
Investments measured at net asset value (A):				
Collective trust fund				808,288
				<u>\$ 9,855,472</u>

- (A) In accordance with Subtopic 820-10, an investment measured at the NAV per share (or its equivalent) has not been classified in the fair value hierarchy. The fair value amount presented in this table is intended to permit a reconciliation of the fair value hierarchy to the line items presented in the statements of net assets available for benefits.

**CAPSTAR BANK 401(k) PROFIT SHARING PLAN**  
**NOTES TO FINANCIAL STATEMENTS**  
**DECEMBER 31, 2018 AND 2017**

Following is a description of the valuation methodologies and inputs used for assets measured at fair value on a recurring basis and recognized in the accompanying statements of net assets available for benefits, as well as the general classification of such assets pursuant to the valuation hierarchy. There have been no significant changes in the valuation techniques during the year ended December 31, 2018. The Plan had no liabilities measured at fair value on a recurring basis. In addition, the Plan had no assets or liabilities measured at fair value on a nonrecurring basis.

**Investments**

Where quoted market prices are available in an active market, investments are classified within Level 1 of the valuation hierarchy. If quoted market prices are not available, then fair values are estimated by using quoted prices of securities with similar characteristics or independent asset pricing services and pricing models, the inputs of which are market-based or independently sourced market parameters, including, but not limited to, yield curves, interest rates, volatilities, prepayments, defaults, cumulative loss projections and cash flows. Such investments are classified in Level 2 of the valuation hierarchy. In certain cases where Level 1 or Level 2 inputs are not available, securities are classified within Level 3 of the hierarchy.

The unitized stock fund consists of CapStar Financial Holdings, Inc. (CSTR) common stock and a short-term cash component that provides liquidity for daily trading. CSTR common stock is valued at the closing price reported on the active market on which the individual securities are traded and the short-term cash investments are valued at cost, which approximates fair value.

**Investment Measured Using the Net Asset Value per Share Practical Expedient**

The following tables summarize the investment for which fair value is measured using the NAV per share practical expedient as of December 31, 2018 and 2017. There are no participant redemption restrictions for these investments; the redemption notice period is applicable only to the Plan.

	<u>Fair value</u>	<u>Unfunded commitments</u>	<u>Redemption frequency</u>	<u>Redemption notice period</u>
<b>December 31, 2018</b>				
Morley Stable Value Fund	\$ 1,054,479	N/A	Daily	None
<b>December 31, 2017</b>				
Morley Stable Value Fund	\$ 808,288	N/A	Daily	None

**Note 5: 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. 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 the participants' account balances and the amounts reported in the statements of net assets available for benefits.

**Note 6: Plan Termination**

Although it has not expressed any intent to do so, the Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, participants would become 100% vested in their employer contributions.

**CAPSTAR BANK 401(k) PROFIT SHARING PLAN**  
**NOTES TO FINANCIAL STATEMENTS**  
**DECEMBER 31, 2018 AND 2017**

**Note 7: Tax Status**

The Plan operates under a volume submitter adoption agreement and plan document sponsored by Newport Group, Inc. The volume submitter document has been filed with the appropriate agency. The Plan has not obtained or requested a determination letter. However, the Plan administrator believes the Plan and related trust are currently designed and are being operated in compliance with the applicable requirements of the Internal Revenue Code and the Plan was qualified and the related trust was exempt as of the financial statement date. Accounting principles generally accepted in the United States of America require Plan management to evaluate tax positions taken by the Plan and recognize a tax liability if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

**Note 8: Plan Amendment**

Effective September 28, 2018, the Plan was amended to recognize predecessor service for employees hired in conjunction with an acquisition during the year ended December 31, 2018, and to allow for the rollover of loans for certain participants. All other significant provisions of the Plan remained unchanged as a result of this amendment.

**Supplemental Schedule**

**CAPSTAR BANK 401(k) PROFIT SHARING PLAN**  
**EIN 26-0189349 PN 001**  
**SCHEDULE H, LINE 4i – SCHEDULE OF ASSETS (HELD AT END OF YEAR)**  
**DECEMBER 31, 2018**

Identity of issuer	Description of investment	Current value
<b>Mutual Funds:</b>		
American Funds AmCap Fund	28,183 shares	\$ 795,335
American Funds Europacific Growth Fund	11,680 shares	525,478
CapStar Bank Unitized Stock Fund	3,384 shares	26,261
Doubleline Total Return Bond Fund	38,294 shares	399,023
First Eagle Global Fund	25,274 shares	1,291,520
Gabelli ABC Fund	29,794 shares	295,855
Lazard US Equity Concentrated Portfolio	72,604 shares	935,860
Vanguard Developed Markets Index Fund	29,018 shares	347,057
Vanguard Emerging Markets Index Fund	11,368 shares	361,060
Vanguard Growth Index Fund	689 shares	47,600
Vanguard High-Yield Corporate Bond Fund	24,810 shares	134,719
Vanguard High Dividend Yield Index Fund	3,835 shares	118,416
Vanguard Mid Cap Index Fund	2,650 shares	453,262
Vanguard Small Cap Index Fund	9,546 shares	603,601
Vanguard Target Retirement 2015 Fund	253 shares	3,513
Vanguard Target Retirement 2020 Fund	4,192 shares	120,027
Vanguard Target Retirement 2025 Fund	7,881 shares	134,053
Vanguard Target Retirement 2030 Fund	3,787 shares	116,727
Vanguard Target Retirement 2035 Fund	6,161 shares	115,959
Vanguard Target Retirement 2040 Fund	3,983 shares	128,699
Vanguard Target Retirement 2045 Fund	6,024 shares	121,745
Vanguard Target Retirement 2050 Fund	7,299 shares	237,359
Vanguard Total International Stock Index Fund	1,278 shares	32,427
Vanguard Total Stock Market Index Fund	2,890 shares	179,435
Vanguard Total World Stock Index Fund	385 shares	10,278
Vanguard Value Index Fund	3,804 shares	145,197
Vanguard 500 Index Fund	8,464 shares	1,958,972
		9,639,438
<b>Collective Trust Fund - Morley Stable Value Fund</b>	40,420 shares	1,054,479
<b>*Participant Loans</b>		
	Participant plan notes:	
	Lowest interest rate - 4.75%	
	Highest interest rate - 6.25%	
	Through January 2024	58,086
		\$ 10,752,003

\*Party-in-interest

CAPSTAR BANK 401(k) PROFIT SHARING PLAN  
EXHIBIT INDEX

<b>Exhibit Number</b>	<b>Description</b>
23.1	<a href="#">Consent of Independent Registered Public Accounting Firm</a>

**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the trustees (or other persons who administer the employee benefit plan) have duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

CAPSTAR BANK 401(k) PROFIT SHARING PLAN

By: /s/ Robert B. Anderson  
Robert B. Anderson  
Chief Financial Officer and Chief Administrative Officer

Date: June 24, 2019

**Consent of Independent Registered Public Accounting Firm**

We consent to the incorporation by reference in Registration Statements (Registration No. 333-224559) on Form S-8 of CapStar Financial Holdings, Inc. of our report dated June 24, 2019, relating to our audits of the statements of net assets available for benefits of the CapStar Bank 401(k) Profit Sharing Plan as of December 31, 2018 and 2017, and the related statement of changes in net assets available for benefits for the year ended December 31, 2018, which report appears in this Annual Report on Form 11-K of the CapStar Bank 401(k) Profit Sharing Plan for the year ended December 31, 2018.

/s/ **BKD, LLP**

Evansville, Indiana  
June 24, 2019