Globalstar, Inc. Form 424B5 September 01, 2015 Filed Pursuant to Rule 424(b)(5) Registration Statement No. 333-205968

PROSPECTUS SUPPLEMENT NO. 2 (To Prospectus dated July 30, 2015, as supplemented by Prospectus Supplement dated August 10, 2015)

GLOBALSTAR, INC. 9,336,160 SHARES OF COMMON STOCK

This Prospectus Supplement No. 2 supplements the prospectus dated July 30, 2015, as supplemented by the prospectus supplement dated August 10, 2015. This prospectus supplement should be read in conjunction with the prospectus and the previous prospectus supplement, and is qualified in its entirely by reference to the prospectus and the previous prospectus supplement, except to the extent that the information presented herein supersedes the information contained in the prospectus or the previous prospectus supplement. This Prospectus Supplement No. 2 is not complete without, and may not be delivered or utilized, except in connection with the prospectus, including any amendments or supplements thereto.

Unless the context otherwise indicates, references in this prospectus supplement to the "accompanying prospectus" refer to the prospectus dated July 30, 2015, as supplemented by the prospectus supplement dated August 10, 2015.

Pursuant to this prospectus supplement and the accompanying prospectus, we are offering 9,336,160 shares of our voting common stock to Terrapin Opportunity, L.P., or Terrapin, pursuant to a Common Stock Purchase Agreement between us and Terrapin dated as of August 7, 2015, which we refer to as the Purchase Agreement, at a price of approximately \$1.61 per share. The total purchase price for the shares is \$15 million. We will receive net proceeds from the sale of these shares of approximately \$14.9 million, after deducting our estimated offering expenses of approximately \$0.1 million in connection with this offering.

This prospectus supplement and the accompanying prospectus also cover the resale of these shares by Terrapin to the public. Terrapin is an "underwriter" within the meaning of Section 2(a)(11) of the Securities Act of 1933, as amended, or the Securities Act, and any profits on the sales of shares of our common stock by Terrapin and any discounts, commissions or concessions received by Terrapin may be deemed to be underwriting discounts and commissions under the Securities Act.

We expect to issue these shares to Terrapin on or about August 31, 2015. Our common stock is traded on the NYSE MKT under the trading symbol "GSAT." On August 31, 2015, the last reported sales price for our common stock was \$1.76 per share.

INVESTING IN OUR SECURITIES INVOLVES A HIGH DEGREE OF RISK. SEE THE SECTION ENTITLED "RISK FACTORS" BEGINNING ON PAGE S2-3 OF THIS PROSPECTUS SUPPLEMENT.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR PASSED UPON THE ACCURACY OR ADEQUACY OF THIS PROSPECTUS SUPPLEMENT. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this Prospectus Supplement is August 31, 2015

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ABOUT THIS PROSPECTUS SUPPLEMENT

This prospectus supplement and the accompanying prospectus, dated July 30, 2015, as supplemented by the accompanying prospectus supplement, dated August 10, 2015, are part of a registration statement on Form S-3 (File No. 333-205968), which we refer to as the Registration Statement, that we filed with the Securities and Exchange Commission, or the SEC, using the "shelf" registration process, and that was deemed effective on July 31, 2015. Under this "shelf" registration process, we may from time to time sell any combination of securities described in the accompanying prospectus in one or more offerings up to a total of \$75 million.

This document is in two parts. The first part is this prospectus supplement, which describes the specific terms of the offering and also supplements, adds to and updates information contained in the accompanying prospectus and the documents incorporated by reference into the accompanying prospectus. The second part is the accompanying prospectus, which provides more general information, some of which may not apply to the securities. Generally, when we refer to this prospectus, we are referring to both parts of this document combined. To the extent there is a conflict between the information contained in this prospectus supplement, on the one hand, and the information contained in the accompanying prospectus or any document incorporated by reference therein, on the other hand, you should rely on the information in this prospectus supplement. If any statement in one of these documents is inconsistent with a statement in another document having a later date—for example, a document incorporated by reference in the accompanying prospectus—the statement in the document having the later date modifies or supersedes the earlier statement.

This prospectus supplement contains summaries of certain provisions contained in some of the documents described herein, but reference is made to the actual documents for complete information. All of the summaries are qualified in their entirety by the actual documents. Copies of some of the documents referred to herein have been filed, will be filed or will be incorporated by reference as exhibits to the registration statement of which this prospectus supplement is a part, and you may obtain copies of those documents as described below under the section entitled "Where You Can Find Additional Information."

Unless stated otherwise, references in this prospectus supplement and the accompanying prospectus to "Globalstar," "we," "us," or "our" refer to Globalstar, Inc., a Delaware corporation.

This prospectus supplement, the accompanying prospectus, and the information incorporated herein and therein by reference include trademarks, service marks and trade names owned by us or other companies. All trademarks, service marks and trade names included or incorporated by reference into this prospectus supplement or the accompanying prospectus are the property of their respective owners.

We are not making any representation to you regarding the legality of an investment in the securities by you under applicable law. We are not making an offer to sell the securities in any jurisdiction where the offer or sale is not permitted. Persons outside the United States who come into possession of this prospectus supplement and the accompanying prospectus must inform themselves about, and observe any restrictions relating to, the offering of the securities and the distribution of this prospectus supplement and the accompanying prospectus outside the United States.

PROSPECTUS SUPPLEMENT SUMMARY

This summary highlights selected information contained elsewhere or incorporated by reference in this prospectus supplement. This summary does not contain all the information that you should consider before investing in our securities. You should read the entire prospectus supplement and the accompanying prospectus carefully, including "Risk Factors," the financial statements and other information included or incorporated by reference in this prospectus supplement and the accompanying prospectus before making an investment decision. This prospectus supplement

contains forward-looking statements that involve risks and uncertainties. Our actual results could differ materially from the results anticipated in these forward-looking statements as a result of factors described under the "Risk Factors" section and elsewhere in this prospectus supplement and in the risk factors set forth under "Item IA. Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2014 and our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2015 and June 30, 2015, and elsewhere in the documents incorporated by reference. All references in this prospectus supplement to "\$" are to U.S. dollars.

The Company

We are a leading provider of mobile voice and data communication services via satellite. Our communications platform extends to telecommunication beyond the boundaries of terrestrial wireline and wireless telecommunications made to serve our customers' desire for connectivity. Using in-orbit satellites and ground stations, which we call gateways, we offer voice and data communication services to government agencies, businesses and other customers in over 120 countries.

Our principal executive offices are located at 300 Holiday Square Blvd., Covington, Louisiana 70433 and our telephone number is (985) 335-1500. Our website address is www.globalstar.com. The information contained in, or that can be accessed through, our web site is not part of this prospectus supplement.

THE OFFERING

Common stock offered by us Common stock to be outstanding immediately after this offering

NYSE MKT Symbol

Risk Factors

9,336,160 shares

903,595,475 shares

GSAT

Investing in our common stock involves a high degree of risk. You should read the description of risks set forth in the "Risk Factors" section of this prospectus supplement or otherwise incorporated by reference in this prospectus supplement for a discussion of factors to consider before

deciding to purchase our securities.

RISK FACTORS

An investment in our securities involves a high degree of risk. Before you make a decision to invest in our securities, you should consider carefully the risks described below and discussed under the section captioned "Risk Factors" contained in our Annual Report on Form 10-K for the year ended December 31, 2014, which was filed with the SEC on March 2, 2015, and is incorporated by reference in this prospectus supplement and the accompanying prospectus in their entirety, together with other information in this prospectus supplement, the accompanying prospectus, and the information and documents incorporated by reference. If any of these risks actually occur, our business, operating results, prospects or financial condition could be materially and adversely affected. This could cause the trading price of our securities to decline and you may lose part or all of your investment. Moreover, the risks described are not the only ones that we face. Additional risks not presently known to us or that we currently deem immaterial may also affect our business, operating results, prospects or financial condition.

Additional Risks Related to this Offering

Management will have broad discretion as to the use of the proceeds from this offering, and we may not use the proceeds effectively.

Our management will have broad discretion in the application of the net proceeds from this offering and could spend the proceeds in ways that do not improve our results of operations or enhance the value of our common stock. Our failure to apply these funds effectively could have a material adverse effect on our business, delay the implementation of our business plan and cause the price of our common stock to decline.

The sale of our common stock in this offering and any future sales of our common stock may depress our stock price.

If we elect to draw down amounts under the Purchase Agreement, which will result in the sale to Terrapin of additional shares of our voting common stock, any such draw downs will have a dilutive impact on our existing stockholders. Terrapin may resell some or all of the shares we issue to it under the Purchase Agreement and such sales could cause the market price of our common stock to decline. To the extent of any such decline, any subsequent draw downs would require us to issue a greater number of shares of common stock to Terrapin in exchange for each dollar of proceeds received from the draw down. Under these circumstances, our existing stockholders would experience greater dilution and the total amount of the financing that we will be able to raise pursuant to the Purchase Agreement could be significantly lower than \$75.0 million. Although Terrapin is precluded from short sales of shares acquired under the Purchase Agreement, the sale of our common stock under the Purchase Agreement, or the perception that such sales could occur, may encourage short sales by third parties, which could contribute to further decline of our stock price.

FORWARD-LOOKING INFORMATION

This prospectus supplement and the accompanying prospectus and the documents that we have filed with the SEC that are incorporated by reference herein and therein contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act, that are subject to the "safe harbor" created by those sections. Examples of these statements include, but are not limited to, statements regarding our ability to develop and expand our business (including our ability to monetize our spectrum rights), our anticipated capital spending, our ability to manage costs, our ability to exploit and respond to technological innovation, the effects of laws and regulations (including tax laws and regulations) and legal and regulatory changes (including regulation related to the use of our spectrum), the opportunities for strategic business combinations and the effects of consolidation in our industry on us and our competitors, our anticipated future revenues, our anticipated financial resources, our expectations about the future operational performance of our satellites (including their projected operational lives), the expected strength of and

growth prospects for our existing customers and the markets that we serve, commercial acceptance of new products, problems relating to the ground-based facilities operated by us or by independent gateway operators, worldwide

economic, geopolitical and business conditions and risks associated with doing business on a global basis and other statements contained in this prospectus supplement regarding matters that are not historical facts, involve predictions.

These forward-looking statements are generally identified by words such as "may," "will," "could," "would," "should," "expect," "intend," "plan," "anticipate," "believe," "estimate," "predict," "project," "potential," "continue," "ongoing" or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these words. Discussions containing these forward-looking statements may be found, among other places, in "Business" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" incorporated by reference from our most recent Annual Report on Form 10-K and our Quarterly Reports on Form 10-Q, as well as any amendments thereto reflected in subsequent filings with the SEC or in any Current Report on Form 8-K. These forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from the information expressed or implied by these forward-looking statements. While we believe that we have a reasonable basis for each forward-looking statement contained in this prospectus supplement, we caution you that these statements are based on a combination of facts and factors currently known by us and our projections of the future, about which we cannot be certain. As a result of these factors, we cannot assure you that the forward-looking statements in this prospectus supplement and the accompanying prospectus or documents incorporated by reference herein and therein will prove to be accurate. Furthermore, if our forward-looking statements prove to be inaccurate, the inaccuracy may be material. In light of the significant uncertainties in these forward-looking statements, you should not regard these statements as a representation or warranty by us or any other person that we will achieve our objectives and plans in any specified time frame, or at all. You should not place undue reliance on these forward-looking statements, which apply only as of the date of this prospectus supplement. You should read this prospectus supplement, the accompanying prospectus, the registration statement of which this prospectus supplement and the accompanying prospectus is a part and the documents incorporated by reference herein and therein completely and with the understanding that our actual future results may be materially different from what we expect.

We undertake no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise. You are advised, however, to consult any further disclosures we make on related subjects in our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, as well as any amendments thereto.

USE OF PROCEEDS

The proceeds from this offering will vary depending on the number of shares that we offer and the offering price per share. We expect that our net maximum proceeds will be up to approximately \$72,500,000. We may sell fewer than all of the shares offered by this prospectus supplement, in which case our net offering proceeds will be less, and we may raise less than the maximum \$75,000,000 in gross offering proceeds permitted by this prospectus supplement.

We intend to use the net proceeds from this offering for general corporate purposes, including as "equity cure contributions," as defined in our principal loan agreements, capital expenditures, working capital and general and administrative expenses, and potential acquisitions of or investments in businesses, products and technologies that complement our business, although we have no present commitments or agreements to make any such acquisitions or investments.

DIVIDEND POLICY

We have never declared or paid cash dividends on our common stock. We currently anticipate that we will retain all future earnings to fund the operations of our business and do not anticipate paying dividends on the common stock in the foreseeable future. Our Facility Agreement prohibits us from paying dividends.

PLAN OF DISTRIBUTION

We entered into the Purchase Agreement dated as of August 7, 2015 with Terrapin pursuant to which we may, subject to certain conditions, require Terrapin to purchase up to \$75,000,000 of shares of our voting common stock over the 24-month term following the date of the agreement. From time to time over the 24-month term, and in our sole discretion, we may present Terrapin with up to 24 notices requiring Terrapin (or a greater number as agreed by the parties) to purchase a specified dollar amount of shares of our voting common stock, at or above a minimum price per share (the "Threshold Price") that we specify in our notice, less a discount ranging from 2.75% to 4.00%. Terrapin will purchase the shares over every business day in a ten-day period (a "Pricing Period") on which the volume weighted average price of our common stock exceeds the Threshold Price. The number of shares to be purchased on each day of the Pricing Period, and the price therefore, will be determined by a formula based on the volume weighted average price of the shares on that day and the total amount and Threshold Price of the shares which we have specified. If, on any day in the Pricing Period, the volume weighted average price of our common stock is less than the Threshold Price, then Terrapin will not be required to purchase any shares, and the total amount of shares which Terrapin is required to purchase during that Pricing Period will be reduced, unless Terrapin elects to purchase those shares at the Threshold Price, less the applicable discount. The maximum number of shares which we may require Terrapin to purchase in any Pricing Period depends upon the Threshold Price we elect, but the aggregate price of the shares issued in any Pricing Period may not exceed \$40,000,000. In addition to the shares described above, in our sole discretion, but subject to certain limitations, in any Pricing Period we may offer Terrapin the right to purchase all or any portion of an amount of additional shares of our voting common stock at a price based in part on the daily volume weighted average price of our voting common stock.

We may not sell to Terrapin under the Purchase Agreement any shares of voting common stock which, if aggregated with all other shares of voting common stock then beneficially owned by Terrapin and its affiliates, would result in the beneficial ownership by Terrapin and its affiliates of more than 9.9% of the outstanding shares of our voting common stock on the date of sale. Furthermore, we may not sell to Terrapin more than 177,944,443 shares of voting common stock (19.9% of the outstanding shares of our voting common stock immediately prior to the execution of the Purchase Agreement) in the aggregate, unless and until our stockholders approve the transactions contemplated by the Purchase Agreement in accordance with the rules of the NYSE MKT. We have agreed to seek this approval. Subject to certain conditions, this aggregate share limitation will be inapplicable if the sales of common stock to Terrapin under the Purchase Agreement are deemed to be at a price equal to or in excess of the greater of book or market value of the common stock as calculated in accordance with the applicable rules of the NYSE MKT. We also may not sell or offer to sell shares to Terrapin during any period in which we possess material non-public information or unless we comply with certain additional requirements, within 24 hours after we file a Quarterly Report on Form 10-Q or an Annual Report on Form 10-K.

We have agreed to pay up to \$35,000 of Terrapin's legal fees and expenses. No additional legal fees incurred by Terrapin are payable by us in connection with any sale of shares to Terrapin.

In addition to our issuance of an aggregate of \$75,000,000 of our shares of voting common stock to Terrapin pursuant to the Purchase Agreement, the Registration Statement also covers the sale of those shares from time to time by Terrapin to the public. Terrapin in an "underwriter" within the meaning of Section 2(a)(11) of the Securities Act.

Terrapin has informed us that it will use an unaffiliated broker-dealer to effectuate all sales, if any, of our voting common stock that it may purchase from us pursuant to the Purchase Agreement. These sales may be made on the NYSE MKT, or any other exchange on which our voting common stock may be traded at that time, at prices and at terms then prevailing or at prices related to the then current market price. Each such unaffiliated broker-dealer will be an underwriter within the meaning of Section 2(a)(11) of the Securities Act. Terrapin has informed us that each such broker-dealer will receive fees and commissions from Terrapin that will not exceed customary brokerage fees and commissions. Terrapin will also pay other expenses associated with the sale of the voting common stock it acquires

pursuant to the Purchase Agreement.

The shares of common stock may be sold in one or more of the following manners:

ordinary brokerage transactions and transactions in which the broker solicits purchasers; or

a block trade in which the broker or dealer so engaged will attempt to sell the shares as agent, but may position and resell a portion of the block as principal to facilitate the transaction.

Terrapin has agreed that during the term of and for a period of 90 days after the termination of the Purchase Agreement, neither Terrapin no any of its affiliates will, directly or indirectly, sell for value any of our securities except the shares that it owns or has the right to purchase pursuant to the provisions of a draw down notice. Terrapin has agreed that prior to and during the periods listed above neither it nor any of its affiliates will enter into a short position with respect to shares of our voting common stock except that Terrapin may sell shares that it is obligated to purchase under a pending draw down notice of which it has not yet taken possession if Terrapin covers any such sales with the shares purchased pursuant to the draw down notice. Terrapin has further agreed that during the periods listed above it will not grant any option to purchase or acquire any right to dispose or otherwise dispose for value any shares of our common stock or any securities convertible into, or exchangeable for, or warrants to purchase, any shares of our common stock, or enter into any swap, hedge or other agreement that transfers, in whole or in part, the economic risk of ownership of our common stock, except for the sales permitted by the prior two sentences.

In addition Terrapin and any unaffiliated broker-dealer will be subject to liability under the federal securities laws and must comply with the requirements of the Securities Act and the Exchange Act, including, without limitation, Rule 10b-5 and Regulation M under the Exchange Act. These rules and regulations may limit the timing of purchases and sales of common stock by Terrapin or any unaffiliated broker-dealer. Under these rules and regulations, Terrapin and any unaffiliated broker-dealer:

may not engage in any stabilization activity in connection with our securities;

must furnish each broker that offers shares of our common stock covered by this prospectus supplement and the accompanying prospectus that is a part of our Registration Statement with the number of copies of this prospectus and the accompanying prospectus that are required by each broker; and

may not bid for or purchase any of our securities or attempt to induce any person to purchase any of our securities other than as permitted under the Exchange Act.

These restrictions may affect the marketability of the shares of voting common stock purchased by and sold to Terrapin and any unaffiliated broker-dealers.

We have agreed to indemnify Terrapin and its affiliates for losses related to a breach of our representations and warranties under the Purchase Agreement or any action instituted against Terrapin or its affiliates due to the transactions contemplated by the Purchase Agreement, subject to certain limitations.

Terrapin has agreed to indemnify and hold harmless us and each of our directors, employees and affiliates and persons who control us, against certain liabilities, including certain liabilities under the Securities Act that may be based upon written information furnished by Terrapin to us for inclusion in a prospectus or prospectus supplement related to this transaction.

Financial West Group, member FINRA SIPC ("FWG"), served as our placement agent in connection with the financing arrangement contemplated by the Purchase Agreement. Pursuant to their Engagement Letter, we have agreed to indemnify and hold harmless FWG against certain liabilities, including certain liabilities under the Securities Act.

Please also see the information set forth under the caption "Plan of Distribution" in the accompanying prospectus. For more information, please see the section entitled "Incorporation by Reference" in this prospectus supplement.

LEGAL MATTERS

The validity of the securities being offered hereby will be passed upon for us by Taft Stettinius & Hollister LLP, Cincinnati, Ohio.

EXPERTS

Crowe Horwath LLP, independent registered public accounting firm, has audited our financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2014, and the effectiveness of our internal control over financial reporting as of December 31, 2014, as set forth in their reports, which are incorporated by reference in this in this prospectus supplement and the accompanying prospectus and elsewhere in the registration statement. Our financial statements are incorporated by reference in reliance on Crowe Horwath LLP's reports, given on their authority as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

This prospectus supplement is part of a registration statement on Form S-3 that we filed with the SEC. The registration statement that contains this prospectus supplement, including the exhibits to the registration statement, contains additional information about us and the common stock offered by this prospectus supplement.

We file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy any document we file at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the Public Reference Room. Our public filings, including reports, proxy and information statements, are also available on the SEC's website at http://www.sec.gov.

INCORPORATION BY REFERENCE

The SEC allows us to "incorporate by reference" information that we file with it, which means that we can disclose important information to you by referring you to another document that we have filed separately with the SEC. You should read the information incorporated by reference because it is an important part of this prospectus supplement. We incorporate by reference the following information or documents that we have filed with the SEC (Commission File No. 001-33117):

Our Current Report on Form 8-K filed with the SEC on August 10, 2015 and August 31, 2015.

Our Annual Report on Form 10-K for the fiscal year ended December 31, 2014 filed with the SEC on March 2, 2015 (the "2014 Form 10-K");

Our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2015 and June 30, 2015, filed with the SEC on May 8, 2015 August 10, 2015 respectively;

The information specifically incorporated by reference into the 2014 Form 10-K from our definitive proxy statement on Schedule 14A filed with the SEC on April 17, 2015; and

The description of our common stock set forth in our registration statement on Form 8-A filed with the SEC on October 30, 2006, including any amendments thereto or reports filed for the purpose of updating this information.

We also incorporate by reference into this prospectus supplement all documents (other than Current Reports furnished under Item 2.02 or Item 7.01 of Form 8-K and exhibits filed on such form that are related to such items) that are filed by us with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act after the date of this prospectus supplement and until we file a post-effective amendment that indicates the termination of the offering of the securities made by this prospectus supplement. These documents include periodic reports, such as Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K, as well as proxy statements.

Any statement contained herein or in a document incorporated or deemed to be incorporated by reference into this document will be deemed to be modified or superseded for purposes of the document to the extent that a statement contained in this document or any other subsequently filed document that is deemed to be incorporated by reference into this document modifies or supersedes the statement.

You can request a copy of these filings, at no cost, by writing or telephoning us at the following address or telephone number:

Globalstar, Inc.

Attention: Investor Relations 300 Holiday Boulevard Covington, Louisiana 70433 Telephone: (985) 335-1538

Filed Pursuant to Rule 424(b)(5) Registration Statement No. 333-205968

PROSPECTUS SUPPLEMENT (To Prospectus dated July 30, 2015)

GLOBALSTAR, INC. \$75,000,000 COMMON STOCK

Pursuant to this prospectus supplement and the accompanying prospectus, we are offering up to \$75,000,000 of shares of our voting common stock to Terrapin Opportunity, L.P., or Terrapin, pursuant to a Common Stock Purchase Agreement between us and Terrapin dated as of August 7, 2015, which we refer to as the Purchase Agreement. The offering price of such shares, net of commissions payable by us, will be at a discount ranging between 2.75 to 4.00% of the volume weighted average price of our common stock at the time of sale, as reported on NYSE MKT, but not less than a minimum price specified by us. The specific terms of any offering of securities, other than the shares of common stock we agreed to issue to Terrapin pursuant to the terms of the Purchase Agreement, will be described in a further prospectus supplement.

This prospectus supplement and the accompanying prospectus also cover the resale of these shares by Terrapin to the public. Terrapin is an "underwriter" within the meaning of Section 2(a)(11) of the Securities Act of 1933, as amended, or the Securities Act, and any profits on the sale of shares of our common stock by Terrapin and any discounts, commissions or concessions received by Terrapin may be deemed to be underwriting discounts and commissions under the Securities Act.

Our common stock is traded on the NYSE MKT under the trading symbol "GSAT." On August 7, 2015, the last reported sales price for our common stock was \$1.90 per share.

INVESTING IN OUR SECURITIES INVOLVES A HIGH DEGREE OF RISK. SEE THE SECTION ENTITLED "RISK FACTORS" BEGINNING ON PAGE S-4 OF THIS PROSPECTUS SUPPLEMENT.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR PASSED UPON THE ACCURACY OR ADEQUACY OF THIS PROSPECTUS SUPPLEMENT. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this Prospectus Supplement is August 10, 2015

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ABOUT THIS PROSPECTUS SUPPLEMENT

This prospectus supplement is a supplement to the accompanying prospectus, dated July 30, 2015, which is also a part of this document. This prospectus supplement and the accompanying prospectus are part of a registration statement on Form S-3 (File No. 333-205968), which we refer to as the Registration Statement, that we filed with the Securities and Exchange Commission, or the SEC, using the "shelf" registration process, and that was deemed effective on July 31, 2015. Under this "shelf" registration process, we may from time to time sell any combination of securities described in the accompanying prospectus in one or more offerings up to a total of \$75 million.

This document is in two parts. The first part is this prospectus supplement, which describes the specific terms of the offering and also supplements, adds to and updates information contained in the accompanying prospectus and the documents incorporated by reference into the accompanying prospectus. The second part is the accompanying prospectus, which provides more general information, some of which may not apply to the securities. Generally, when we refer to this prospectus, we are referring to both parts of this document combined. To the extent there is a conflict between the information contained in this prospectus supplement, on the one hand, and the information contained in the accompanying prospectus or any document incorporated by reference therein, on the other hand, you should rely on the information in this prospectus supplement. If any statement in one of these documents is inconsistent with a statement in another document having a later date—for example, a document incorporated by reference in the accompanying prospectus—the statement in the document having the later date modifies or supersedes the earlier statement.

This prospectus supplement contains summaries of certain provisions contained in some of the documents described herein, but reference is made to the actual documents for complete information. All of the summaries are qualified in their entirety by the actual documents. Copies of some of the documents referred to herein have been filed, will be filed or will be incorporated by reference as exhibits to the registration statement of which this prospectus supplement is a part, and you may obtain copies of those documents as described below under the section entitled "Where You Can Find Additional Information."

Unless stated otherwise, references in this prospectus supplement and the accompanying prospectus to "Globalstar," "we," "us," or "our" refer to Globalstar, Inc., a Delaware corporation.

This prospectus supplement, the accompanying prospectus, and the information incorporated herein and therein by reference include trademarks, service marks and trade names owned by us or other companies. All trademarks, service marks and trade names included or incorporated by reference into this prospectus supplement or the accompanying prospectus are the property of their respective owners.

We are not making any representation to you regarding the legality of an investment in the securities by you under applicable law. We are not making an offer to sell the securities in any jurisdiction where the offer or sale is not permitted. Persons outside the United States who come into possession of this prospectus supplement and the accompanying prospectus must inform themselves about, and observe any restrictions relating to, the offering of the securities and the distribution of this prospectus supplement and the accompanying prospectus outside the United States.

PROSPECTUS SUPPLEMENT SUMMARY

This summary highlights selected information contained elsewhere or incorporated by reference in this prospectus supplement. This summary does not contain all the information that you should consider before investing in our securities. You should read the entire prospectus supplement and the accompanying prospectus carefully, including "Risk Factors," the financial statements and other information included or incorporated by reference in this prospectus supplement and the accompanying prospectus before making an investment decision. This prospectus supplement contains forward-looking statements that involve risks and uncertainties. Our actual results could differ materially from the results anticipated in these forward-looking statements as a result of factors described under the "Risk Factors" section and elsewhere in this prospectus supplement and in the risk factors set forth under "Item IA. Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2014 and our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2015 and June 30, 2015, and elsewhere in the documents incorporated by reference. All references in this prospectus supplement to "\$" are to U.S. dollars.

The Company

We are a leading provider of mobile voice and data communication services via satellite. Our communications platform extends to telecommunication beyond the boundaries of terrestrial wireline and wireless telecommunications made to serve our customers' desire for connectivity. Using in-orbit satellites and ground stations, which we call gateways, we offer voice and data communication services to government agencies, businesses and other customers in over 120 countries.

Our principal executive offices are located at 300 Holiday Square Blvd., Covington, Louisiana 70433 and our telephone number is (985) 335-1500. Our website address is www.globalstar.com. The information contained in, or that can be accessed through, our web site is not part of this prospectus supplement.

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THE OFFERING

Shares of voting common stock with aggregate gross sale proceeds of up Common stock offered by us

to \$75.0 million.

The proceeds from this offering will vary depending on the number of shares that we offer and the offering price per share. We expect that our maximum net proceeds, after discounts and offering expenses, will be up to approximately \$72,500,000. We may sell fewer than all of the shares offered by this prospectus supplement, in which case our net offering proceeds will be less, and we may raise less than the maximum \$75,000,000 in gross offering proceeds permitted by this prospectus

supplement.

We intend to use the net proceeds from this offering for general Use of Proceeds

corporate purposes, including as "equity cure contributions," as defined in our principal loan agreements. See "Use of Proceeds" on page S-8 of this

prospectus supplement.

We have never declared or paid any dividends to the holders of our common stock, and we do not expect to pay cash dividends in the foreseeable future. Our current principal loan facility prohibits the

payment of cash dividends.

GSAT

Investing in our common stock involves a high degree of risk. You should read the description of risks set forth in the "Risk Factors" section of this prospectus supplement or otherwise incorporated by reference in this prospectus supplement for a discussion of factors to consider before

deciding to purchase our securities.

The Purchase Agreement governing this offering became effective on

August 7, 2015.

Proceeds of offering

Dividend Policy

NYSE MKT Symbol

Risk Factors

Effective Date

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RISK FACTORS