Fidelity INVESTMENTS

Questions? Go to Fidelity.com/openaccount or call 800-343-3548.

Corporate Resolution

Use this form to update authorized officers or individuals on your existing Fidelity account, OR to establish a new business account by submitting this form along with a completed *Fidelity Account® for Businesses* application. You can go to *Fidelity.com/openaccount* to download the application. Type on screen or fill in using CAPITAL letters and black ink. If you need more room for information or signatures, make a copy of the relevant page.

Helpful to Know

- **Important: This Corporate Resolution supersedes any previous Corporate Resolution. ALL new and remaining Authorized Individuals MUST provide his or her information in Sections 3 or 4.**
- Section 5 should be used to identify any entity aside from the corporation identified in Section 1 that is authorized to transact business in the account. Additional documentation will be required if you complete this section. Please call Fidelity for more information.
- If the Authorized Individuals on the account are changing and the account has checkwriting and/or options trading privileges, a new *Checkwriting* form and/or *Options Application* must be completed and returned with this form. Go to *Fidelity.com/forms* to download the appropriate form(s).
- This form must be signed by an officer, other than those listed in Sections 2, 3, and 4, unless there are no other officers of the Corporation aside from those listed. **Please imprint a Corporate Seal in the space provided or include a copy of the Articles of Incorporation with this form. Copies of the Articles of Incorporation are required if this is a foreign corporation.**

1. Corporation Information

Enter full entity name as evidenced by the relevant formation document (e.g., trust document, partnership agreement, articles of incorporation).

Account Number *If applicable.*

Name of Corporation

Taxpayer ID Number | Daytime Phone | Extension

Corporation Permanent Address *This is the legal address used for tax reporting.*

Street Address

City | State | ZIP Code

Corporation Mailing Address *This may be a PO Box, drop box, or c/o location.*

☐ Same as permanent address ▷ *Default if no other information indicated below.*

Mailing Address

City | State | ZIP Code

Government ID *For foreign entities only.*

Attach a copy of a valid and unexpired government document with evidence of the reference number.

Government-Issued Identification Number

Type of Document

Country of Issuance

Form continues on next page. ▶▶

2. Certifications

Name of President or other Officer named in Section 3
Title

I, the President or Officer named in Section 3, hereby certify the following:

A. That the Corporation identified in Section 1 is duly organized and existing under the laws of the state/country specified below and has the power to take the action called for by the Resolutions on this form.

State/Country

B. That the Corporation is this type of entity:

Check one.

☐ Publicly Traded Corporation ☐ Privately Held Corporation

C. That the resolutions in Section 6 of this form were duly adopted by the Board of said Corporation and that the same remain in full force and effect.

D. That each of the individual(s) named in Section 3 has been duly elected, is now legally holding the title set beside his or her name, and that any one of them acting individually be, and they hereby are, authorized to execute any and all instruments necessary, proper, and desirable for the purpose, including any and all documentation necessary to establish this account (which may be a margin account) in the name of said Corporation with Fidelity and to purchase, trade, sell (including short sales in margin accounts), assign, withdraw, transfer, and/or deliver any and all stocks, bonds, options, or any other assets or securities, listed or unlisted, and to establish checkwriting, EFT, and other account-related services in said account(s) as indicated further, that any past action in accordance herewith is hereby ratified and confirmed; and, further, that any officer of this Corporation (other than those listed here) is hereby authorized to certify this resolution to Fidelity. This authorization shall continue in force until revoked by the above-named Corporation by a written notice, addressed and delivered to Fidelity.

E. That the resolutions herein are not contrary to any provision in the charter or bylaws of this Corporation, and that I have been authorized to make this certification to Fidelity on behalf of this Corporation.

F. That any information given on this corporate resolution is true, accurate, complete, and subject to verification and Fidelity is authorized to obtain a credit or other financial responsibility report with respect to the registered account holder as well as any individual authorized to transact business on behalf of the registered account holder, that the undersigned is authorized to express the consent of such Authorized Individuals to obtain a report, and that such individuals have been notified of the possibility thereof. Upon written request, Fidelity will provide the name and address of the credit reporting agency used.

G. That if a section titled Associations is not completed, the authorized individual is not employed by nor associated with a broker-dealer, stock exchange, exchange member firm, FINRA, a municipal securities dealer, or any other financial institution, nor is the authorized individual the spouse or immediate family member residing in the same household of such a person; and that if a section titled Affiliations is not completed, none of the authorized individual, his or her spouse, nor any of his or her relatives living in his or her home are a control person or affiliate of a public company under SEC Rule 144.

Form continues on next page. ▶▶

3. Authorized Individual *Required to be completed for each Authorized Individual (new and remaining).*

To list up to seven Authorized Individuals on this account, provide the information below for each new and/or remaining Authorized Individual. Each Authorized Individual named is fully authorized to open a brokerage account in the name of the corporation identified in Section 1, to place orders on the account, and to execute any instrument incidental to such account (such as applying for margin or options), to act in a sole capacity in these regards, and to act on behalf of the corporation as may be more fully described in the Fidelity Account Customer Agreement ("Customer Agreement"). If you need to provide information for more than one Authorized Individual, you can do so in Section 4.

Enter full first and last name as evidenced by a government-issued, unexpired document (e.g., driver's license, passport, permanent resident card).

First Name	Middle Name	Last Name

Date of Birth *MM DD YYYY*	Email

Social Security or Taxpayer ID Number	Daytime Phone	Extension

If you provide an email address and unless you indicate otherwise below, all materials will be sent to you electronically.

To confirm electronic delivery, respond to the Electronic Delivery Agreement and Consent, which Fidelity will email to you. To choose delivery by U.S. mail, check one or more boxes below.

Check only those items you do NOT want to receive electronically.

- ☐ Account statements
- ☐ Trade confirmations and related prospectuses
- ☐ Tax forms and related disclosures
- ☐ Other documents (including shareholder reports and regular prospectus mailings)

Residential Address (where you live) *This is your legal address used for tax reporting.*

Street Address		
City	**State**	**ZIP Code**

Mailing Address *This may be a PO Box, drop box, or c/o location.*

☐ Same as residential address ▷ *Default if no other information indicated below.*

Mailing Address		
City	**State**	**ZIP Code**

Citizenship

Indicate your citizenship status. ▶

☐ U.S. citizen

☐ Foreign citizen *Information in this box must be completed.*

☐ Permanent U.S. resident ☐ Nonpermanent U.S. resident ☐ Nonresident of U.S.

Country of Citizenship	Country of Tax Residency *Only applicable to nonresidents of the U.S.*

City, State/Province, and Country of Birth

Check one and ***attach a copy of a valid and unexpired government ID*** *showing number and photo.* ▶

☐ Passport ☐ Employment Authorization Document

☐ DHS Permanent Resident Card ☐ Foreign National Identity Document

Authorized Individual continues on next page. ▶▶

Income Source *Industry regulations require us to ask for this information.*

Check one and provide information.

☐ Employed ☐ Self-employed

Occupation	Employer *Leave blank if self-employed.*

Employer Address

City	State/Province	ZIP/Postal Code	Country

☐ Retired ☐ Not employed

Source of Income *Pension, investments, spouse, etc.*

Associations

As a person associated with a member firm, you are obligated to receive consent from that firm. Fidelity has existing consent agreements with many firms for their employees to maintain accounts with Fidelity and to deliver transactional data. If your firm is not one of them, Fidelity will attempt to contact your firm's compliance office.

If you are employed by or associated with a broker-dealer, stock exchange, exchange member firm, the Financial Industry Regulatory Authority (FINRA), a municipal securities dealer, or other financial institution, or are the spouse or an immediate family member residing in the same household of someone who meets the aforementioned employment criteria, provide the company's name and address below. By providing this information and completing this form, you hereby authorize Fidelity to provide the associated person's employer with duplicate copies of confirmations and statements, or the transactions data contained therein, for your account(s) and any accounts you choose to have on a consolidated statement for purposes of their compliance review.

Company Name

Company Address

City	State/Province	ZIP/Postal Code	Country

Affiliations

If you, your spouse, or any of your relatives (including parents, in-laws, and/or dependents, etc.), living in your home (at the same address), is a member of the board of directors, a 10% shareholder, or a policy-making officer of a publicly traded company (an "Affiliate"), you must provide the information below. If there are more than two Affiliates, make a copy of this section.

Affiliate's Company Name	Trading Symbol or CUSIP

Affiliate's Company Name	Trading Symbol or CUSIP

Form continues on next page.

4. Additional Authorized Individual

Enter full first and last name as evidenced by a government-issued, unexpired document (e.g., driver's license, passport, permanent resident card).

First Name	Middle Name	Last Name

Date of Birth *MM DD YYYY*	Email

Social Security or Taxpayer ID Number	Daytime Phone	Extension

If you provide an email address and unless you indicate otherwise below, all materials will be sent to you electronically.

To confirm electronic delivery, respond to the Electronic Delivery Agreement and Consent, which Fidelity will email to you. To choose delivery by U.S. mail, check one or more boxes below.

Check only those items you do NOT want to receive electronically.

- ☐ Account statements
- ☐ Trade confirmations and related prospectuses
- ☐ Tax forms and related disclosures
- ☐ Other documents (including shareholder reports and regular prospectus mailings)

Residential Address (where you live) *This is your legal address used for tax reporting.*

Street Address		
City	**State**	**ZIP Code**

Mailing Address *This may be a PO Box, drop box, or c/o location.*

☐ Same as residential address ▷ *Default if no other information indicated below.*

Mailing Address		
City	**State**	**ZIP Code**

Citizenship

Indicate your citizenship status. ▶

☐ U.S. citizen

☐ Foreign citizen *Information in this box must be completed.*

☐ Permanent U.S. resident ☐ Nonpermanent U.S. resident ☐ Nonresident of U.S.

Country of Citizenship	Country of Tax Residency *Only applicable to nonresidents of the U.S.*

City, State/Province, and Country of Birth

Check one and ***attach a copy of a valid and unexpired government ID*** *showing number and photo.* ▶

- ☐ Passport
- ☐ Employment Authorization Document
- ☐ DHS Permanent Resident Card
- ☐ Foreign National Identity Document

Additional Authorized Individual continues on next page. ▶▶

Income Source *Industry regulations require us to ask for this information.*

Check one and provide information.

☐ Employed ☐ Self-employed

Occupation	Employer *Leave blank if self-employed.*

Employer Address

City	State/Province	ZIP/Postal Code	Country

☐ Retired ☐ Not employed

Source of Income *Pension, investments, spouse, etc.*

Associations

As a person associated with a member firm, you are obligated to receive consent from that firm. Fidelity has existing consent agreements with many firms for their employees to maintain accounts with Fidelity and to deliver transactional data. If your firm is not one of them, Fidelity will attempt to contact your firm's compliance office.

If you are employed by or associated with a broker-dealer, stock exchange, exchange member firm, the Financial Industry Regulatory Authority (FINRA), a municipal securities dealer, or other financial institution, or are the spouse or an immediate family member residing in the same household of someone who meets the aforementioned employment criteria, provide the company's name and address below. By providing this information and completing this form, you hereby authorize Fidelity to provide the associated person's employer with duplicate copies of confirmations and statements, or the transactions data contained therein, for your account(s) and any accounts you choose to have on a consolidated statement for purposes of their compliance review.

Company Name

Company Address

City	State/Province	ZIP/Postal Code	Country

Affiliations

If you, your spouse, or any of your relatives (including parents, in-laws, and/or dependents, etc.), living in your home (at the same address), is a member of the board of directors, a 10% shareholder, or a policy-making officer of a publicly traded company (an "Affiliate"), you must provide the information below. If there are more than two Affiliates, make a copy of this section.

Affiliate's Company Name	Trading Symbol or CUSIP

Affiliate's Company Name	Trading Symbol or CUSIP

Form continues on next page.

5. Additional Authorized Entity *If applicable*

Complete this section to identify any additional entity (other than the corporation listed in Section 1) that is authorized to transact business on the account. You will need to complete the applicable Fidelity forms and provide the required supporting documentation for each additional entity.

Enter full entity name as evidenced by the relevant formation document (e.g., trust document, partnership agreement, articles of incorporation).

Entity Name		Tax ID Number
Country of Tax Residence	**State/Country of Organization**	
Trust Date (for trusts only) *MM DD YYYY*	**Entity ID Document**	**State/Country of Issuance**

Entity Permanent Address *This is the legal address used for tax reporting.*

Street Address		
City	**State**	**ZIP Code**

Entity Mailing Address *This may be a PO Box, drop box, or c/o location.*

☐ Same as permanent address ▷ *Default if no other information indicated below.*

Mailing Address		
City	**State**	**ZIP Code**

6. Resolutions and Signature of Certifying Officer

Certified Copy of Certain Resolutions Adopted by the Board of Directors Whereby the Establishment and Maintenance of Trading Accounts Have Been Authorized

RESOLVED:

FIRST: That the individual listed in Section 2 of this corporate resolution hereby is authorized and empowered, for and on behalf of this Corporation, to establish, maintain, and act on this account (which may be a margin account) and that the individuals listed in Section 3 of this Corporate Resolution are, and each of them hereby is, authorized and empowered for and on behalf of this Corporation, with Fidelity Brokerage Services LLC and its affiliates (collectively "Fidelity") for the purpose of purchasing, investing in, or otherwise acquiring, selling (including short sales), possessing, transferring, exchanging, or otherwise disposing of, or turning to account of, or realizing upon, and generally dealing in and with any and all forms of securities including, but not by way of limitation, shares, stocks, bonds, debentures, notes, scrip, participation certificates, rights to subscribe, options, warrants, certificates of deposit, mortgages, evidences of indebtedness, commercial paper, certificates of indebtedness and certificates of interest of any and every kind and nature whatsoever, secured or unsecured, whether represented by trust, participating and/or other certificates, or otherwise.

The fullest authority at all times with respect to any such commitment or with respect to any transaction deemed by any of the said officers and/or agents to be proper in connection therewith is hereby conferred, including authority (without limiting the generality of the foregoing) to give instructions (whether oral, written, electronic, or otherwise) to Fidelity with respect to said transactions; to borrow money and securities and to borrow such money and securities from or through Fidelity, and to secure repayment thereof with the property of the Corporation; to bind and obligate the Corporation to and for the carrying out of any contract, arrangement, or transaction that shall be entered into by any such officer and/or agent for and on behalf of the Corporation with or through Fidelity; to pay by checks and/or drafts drawn upon the funds of the Corporation such sums as may be necessary in connection with any of the said accounts; to deliver securities and contracts to Fidelity; to deliver securities to and deposit funds with Fidelity; to order the transfer or delivery of securities to any other person whatsoever, and/or to order the transfer of record of any securities, to any name selected by any of the said officers or agents; to affix the corporate seal to any documents or securities to any name selected by any of the said officers or agents; to affix the corporate seal to any documents or agreements, or otherwise; to endorse any securities and/or contracts in order to pass title thereto; to direct the sale or exercise of any rights with respect to any securities; to sign for the Corporation all releases, powers of attorney, and/or other documents in connection with any such account, and to agree to any terms or conditions to control any such account; to direct Fidelity to surrender any securities to the proper agent or party for the purpose of effecting any exchange or conversion, or for the purpose of deposit with any protective or similar committee, or otherwise; to accept delivery of any securities; to appoint any other person or persons to do any and all things that any of the said officers and/or agents are hereby empowered to do, and generally to do and take all action necessary in connection with

Resolutions and Signature of Certifying Officer continues on next page. ▶▶

the account, or considered desirable by such officer and/or agent with respect thereto.

SECOND: That Fidelity may deal with any and all of the persons directly or indirectly empowered by the foregoing resolution, as though they were dealing with the Corporation directly.

THIRD: That the Secretary of the Corporation be and hereby is authorized, empowered and if requested by Fidelity, directed to certify, under the seal of the Corporation, or otherwise, to Fidelity:

(a) a true copy of these resolutions;

(b) specimen signatures of each and every person by these resolutions empowered;

(c) a certificate (which, if required by Fidelity, shall be supported by an opinion of the general counsel of the Corporation, or other counsel satisfactory to Fidelity) that the Corporation is duly organized and existing, that its charter empowers it to transact the business by these resolutions defined, and that no limitation has been imposed upon such powers by the bylaws or otherwise.

FOURTH: That Fidelity may rely upon any certification given in accordance with these resolutions, as continuing fully effective unless and until Fidelity shall receive due written notice of a change in or the rescission of the authority so evidenced and the dispatch or receipt of any other form of notice shall not constitute a waiver of this provision, nor shall the fact that any person hereby empowered ceases to be an officer of the Corporation or becomes an officer under some other title in any way affect the powers hereby conferred. The failure to supply any specimen signature shall not invalidate any transaction if the transaction is in accordance with authority actually granted.

FIFTH: That in the event of any change in the office or powers of persons hereby empowered, the Secretary shall certify such changes to Fidelity in writing in the manner herein above provided, which notification, when received, shall be adequate both to terminate the powers of the persons theretofore authorized, and to empower the persons thereby substituted.

SIXTH: That the foregoing resolutions and the certificates actually furnished to Fidelity by the Secretary of the Corporation pursuant thereto be and hereby are made irrevocable until written notice of the revocation thereof shall have been received by Fidelity.

SEVENTH: That the Corporation and its officers indemnify and hold Fidelity harmless from any claim, loss, expense, or other liability for effecting any transactions and acting upon any instructions given by the officers or Secretary of the Corporation.

To help the government fight financial crimes, federal regulation requires Fidelity to obtain and verify your name, date of birth, address, and a government-issued ID number before opening your account, and to verify the information. In certain circumstances, Fidelity may obtain and verify comparable information for any person authorized to make transactions in an account. Also, federal regulation requires Fidelity to obtain and verify the beneficial owners and control persons of legal entity customers. Requiring the disclosure of key individuals who own or control a legal entity helps law enforcement investigate and prosecute crimes. Your account may be restricted or closed if Fidelity cannot obtain and verify this information. Fidelity will not be responsible for any losses or damages (including, but not limited to, lost opportunities) that may result if your account is restricted or closed.

This certification must be signed by an officer other than those named in Sections 2, 3, and 4, *provided however, that in the event there are no other officers aside from those listed in Sections 2, 3, and 4, the individual signing below warrants and represents that in signing this document, such action is in accordance with the Corporation's governing documentation. The individual signing below also certifies that all information provided on this form is true, accurate, and complete.*

Please imprint the Corporate Seal or include a copy of the Articles of Incorporation with this form. Copies of the Articles of Incorporation are required if this is a foreign corporation.

PRINT CORPORATE OFFICER NAME

SIGN — CORPORATE OFFICER SIGNATURE

X

DATE — DATE *MM/DD/YYYY*

X

CORPORATE SEAL

Did you sign the form and include any necessary documents?
Send the ENTIRE form and any attachments to Fidelity Investments.

Questions? Go to *Fidelity.com/openaccount* or call 800-343-3548.

Regular mail
Fidelity Investments
PO Box 770001
Cincinnati, OH 45277-0002

Overnight mail
Fidelity Investments
100 Crosby Parkway KC1K
Covington, KY 41015

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