

Options Application

Use this application to apply to add options trading to your new or existing Fidelity account. If you already have options trading on your account, use this application to add or update account owner or authorized agent information. Please complete in CAPITAL letters using black ink. If you need more room for information or signatures, make a copy of the relevant page.

Helpful to Know

Requirements

- **Entire form must be completed in order to be considered for Options. If you are unsure if a particular section pertains to you, please call a Fidelity investment professional at 800-343-3548.**
- All account owners must complete the account owner sections and sign Section 5.
- Any authorized agent must complete Section 6 and sign Section 7.
- Trust accounts must provide trustee information where information on account owners is required.

Eligibility of Trading Strategies

Nonretirement accounts:

- Business accounts: Eligible for any Option Level.
- Custodial (UGMA/UTMA) accounts: Eligible for writing covered call on equity options.
- Individual and joint accounts: Eligible for any Option Level.
- Health Savings Account (HSA): Option Levels 1 or 2. This includes covered call writing and purchase of calls and puts.
- Partnerships: Eligible for any Option Level.
- Trust accounts: Eligible for any Option Level.

Retirement accounts:

- Fidelity IRAs: Option Levels 1 or 2. This includes covered call writing, purchase of calls and puts, and equity/index spreads trading. Approval of spreads trading in Fidelity IRAs is conditioned upon the approval of your account for Option Level 2.
- Inherited IRA (BDA): Option Levels 1 or 2. This includes covered call writing and purchase of calls and puts.
- Investment-Only Retirement (formerly Nonprototype) Accounts: Eligible for any option level.
- Keogh: Option Levels 1 or 2. This includes covered call writing and purchase of calls and puts.
- Roth IRA for Kids accounts: Eligible only for writing covered calls on equity options.

Applying for Margin

- **Option Levels 3, 4, and 5 require margin to be set up on your account. If you apply for Option Levels 3, 4, or 5, you are also applying for margin to be added to your account.**
- If applying for margin, by signing this application, you acknowledge that:
 - Trading on margin lets you borrow money using securities you already own as collateral to purchase additional securities, sell securities short, protect your account from overdraft, or access a convenient line of credit.

- **Margin can involve significant cost and risk and is not appropriate for all investors.** Account owners must determine whether margin is consistent with their investment objectives, income, assets, experience, and risk tolerance. No investment or use of margin is guaranteed to achieve any particular objective.
- Margin will not be granted if we determine that you reside outside of the United States.
- Important documents related to your margin account include the "Margin Agreement" found in the *Important Information about Margins Trading and Its Risks* section of the Fidelity Options Agreement.

Instructions for Corporations and Entities

- Unless options trading is specifically permitted in the corporate resolution you provided when you opened your account, you need to provide a new resolution containing options trading authorization.
- In Section 2, you need to provide information about the entity and/or the authorized individual, as follows:
 - Name: both authorized individual and entity
 - Last Four Digits of SSN or Tax ID Number: entity
 - Marital Status and Income Source/Employment: no answers needed
 - Associations and Corporate Control Status: authorized individual
 - Investment Experience: authorized individual
- If there is a second authorized individual on the account, please complete and submit additional copies of Sections 3 and 5. All authorized individuals must sign.

Important to Understand

- Except in Sections 6 and 7 of this application, "You," "you," and "your" refers to all account holders. Each of the account holders agrees that any account holder has authority to act on behalf of this account.
- In this application, "Fidelity IRA" refers to a Fidelity IRA, a Fidelity IRA Rollover, a Fidelity SEP-IRA, a Fidelity Roth IRA, or a SIMPLE IRA.
- In this application, "Fidelity," "us," and "we" includes Fidelity Brokerage Services LLC (FBS), Fidelity Distributors Corporation, and National Financial Services LLC (NFS), as well as their employees, agents, and representatives, as the context may require.
- In this application, the "Agreement" refers to the Fidelity Options Agreement.

Form continues on next page. ►►

1. Current Fidelity Account

Please note: A separate options application is required for each account you wish to have options trading available.

If you do not already have an account at Fidelity, this form must be accompanied by a new account application.

| |
|----------------|
| Account Number |
| |

New Account Number not yet assigned

2. Account Owner All information in Section 2 is required.

Includes trustees.

| | | |
|--------------------------|------------------------------------|-----------|
| First Name | Middle Name | Last Name |
| | | |
| Date of Birth MM DD YYYY | Trust or Entity Name If applicable | |
| | | |

Marital Status

Single/Divorced/Widowed

Married

| |
|----------------------|
| Number of Dependents |
| |

Income Source

Check one and provide all information.

Industry regulations require us to ask for this information. Note that if you are self-employed, occupation is still required.

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 |
| | | | |

Account Owner continues on next page. ►►



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 |
| | |

Investment Experience

Provide the number of years trading each security. If none, enter "0."

| | | | | | | | | | |
|--------|------------------------------------|-------|------------------------------------|----------|------------------------------------|----------------|------------------------------------|---------------|------------------------------------|
| Stocks | <input type="text" value="Years"/> | Bonds | <input type="text" value="Years"/> | Futures* | <input type="text" value="Years"/> | Equity Options | <input type="text" value="Years"/> | Index Options | <input type="text" value="Years"/> |
|--------|------------------------------------|-------|------------------------------------|----------|------------------------------------|----------------|------------------------------------|---------------|------------------------------------|

Provide the average size and frequency of prior options trades.

| | |
|---|--------------------------|
| Average Size \$1,000, \$5,000, \$10,000, etc. | Options trades per month |
| | |

*A futures contract is an agreement to buy or sell an asset at a specified price at a specified time in the future. The asset transacted is usually a commodity (such as corn, grain, or livestock) or financial instrument (such as stocks, bonds, or currencies). Futures allow investors to potentially benefit from price movements without owning the underlying asset.

3. Additional Account Owner All information is required for all owners. If there are additional owners, make a copy of this section.

Note: Not for use by anyone with 3rd Party authorization (use Section 6).

| | | |
|--------------------------|------------------------------------|-----------|
| First Name | Middle Name | Last Name |
| | | |
| Date of Birth MM/DD/YYYY | Trust or Entity Name If applicable | |
| | | |

Marital Status

Single/Divorced/Widowed Married

Number of Dependents

Income Source

Check one and provide all information. Industry regulations require us to ask for this information. Note that if you are self-employed, occupation is still required.

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.

Additional Account Owner continues on next page. ►►



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 |
| | |

Investment Experience

Provide the number of years trading each security. If none, enter "0."

Stocks Years Bonds Years Futures* Years Equity Options Years Index Options Years

Provide the average size and frequency of prior options trades.

| | |
|---|--------------------------|
| Average Size \$1,000, \$5,000, \$10,000, etc. | Options trades per month |
| | |

*A futures contract is an agreement to buy or sell an asset at a specified price at a specified time in the future. The asset transacted is usually a commodity (such as corn, grain, or livestock) or financial instrument (such as stocks, bonds, or currencies). Futures allow investors to potentially benefit from price movements without owning the underlying asset.

4. Objective and Trading Plans

Investment Objective

Check the objective that most closely reflects your approach for this account.

Industry regulations require us to ask for this information.

← Lower Risk/Shorter Time Frame Higher Risk/Longer Time Frame →

Short-term
Seek to preserve capital and can accept the lowest returns in exchange for price stability.

Conservative
Seek to minimize fluctuations in market values by taking an income-oriented approach with some potential for capital appreciation.

Balanced
Seek the potential for capital appreciation and some income and can withstand moderate fluctuations in market values.

Growth
Seek growth and can withstand significant fluctuations in market values.

Aggressive Growth
Seek aggressive growth and can tolerate wide fluctuations in market values, especially over the short term.

Most Aggressive
Seek very aggressive growth and can tolerate very wide fluctuations in market values, especially over the short term.

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Trading Strategy Select the options strategy that best fits your investment strategy. To apply for Option Levels 2 or 3, your Investment Objective must be Growth or above. To apply for Option Levels 4 or 5, your Investment Objective must be Most Aggressive.

Option Levels 3, 4, and 5 require you to also apply for margin. If you select Option Levels 3, 4, or 5, you will be applying for both margin and option trading.

If you select Levels 1 or 2 and you would also like to apply for margin, check the "add margin" box. If you select Levels 1 or 2 and do not check the "add margin" box, you will not apply for margin.

If you are selecting Levels 3, 4, or 5 for an Investment-Only Retirement Account, see the important information in Section 5, Account Owner Signatures and Dates.

Non-Retirement Accounts and Investment-Only Retirement Accounts

| | | | | |
|--|---|---|---|---|
| <input type="checkbox"/> Level 1: Covered call writing on equity options. | <input type="checkbox"/> Level 2: Purchases of calls and puts (equity and index) and writing of cash covered puts; Includes all trading capabilities under Level 1). | <input type="checkbox"/> Level 3: Equity and index spreads, covered put writing (selling puts against stock that is held short); includes all trading capabilities under Levels 1 and 2. | <input type="checkbox"/> Level 4: Uncovered writing of equity options; Includes all trading capabilities under Levels 1, 2, and 3. | <input type="checkbox"/> Level 5: Uncovered writing of index options; Includes all trading capabilities under Levels 1, 2, 3, and 4. |
|--|---|---|---|---|

Add Margin **Add Margin**

Option Levels 3, 4, and 5 require you to also apply for margin. If you select Option Levels 3, 4, or 5, you will be applying for both margin and option trading.

IRAs or HSAs

| | |
|--|--|
| <input type="checkbox"/> Level 1: Covered call writing on equity options. | <input type="checkbox"/> Level 2: Purchases of calls and puts (equity and index) and writing of cash covered puts; includes all trading capabilities under Level 1. |
|--|--|

Spread Trading (available for IRAs only): Equity and index spreads as well as all trading capabilities under Levels 1 and 2 listed above.

Spread Trading is not available to IRAs utilizing the FDIC-Insured Deposit Sweep as the core position. Accounts with FDIC-Insured Deposit Sweep as their current core position will only be eligible for approval up to Level 2; you must change your core position to be considered for Spread Trading.

Financial Profile

Answer for ALL owners combined. Trusts/entities: Answer based on trust/entity assets.

| | | | |
|--|---|--|--|
| <p>Check one in each column.</p> <p>Industry regulations require us to ask for this information.</p> | Annual Income From all sources | Estimated Net Worth Excluding your home | Estimated Liquid Net Worth Cash and assets easily converted to cash |
| | <input type="checkbox"/> \$0-\$20,000 | <input type="checkbox"/> \$0-\$30,000 | <input type="checkbox"/> \$0-\$15,000 |
| | <input type="checkbox"/> \$20,001-\$50,000 | <input type="checkbox"/> \$30,001-\$50,000 | <input type="checkbox"/> \$15,001-\$50,000 |
| | <input type="checkbox"/> \$50,001-\$100,000 | <input type="checkbox"/> \$50,001-\$100,000 | <input type="checkbox"/> \$50,001-\$100,000 |
| | <input type="checkbox"/> \$100,001 or more | <input type="checkbox"/> \$100,001-\$500,000 <input type="checkbox"/> \$500,001 or more | <input type="checkbox"/> \$100,001-\$500,000 <input type="checkbox"/> \$500,001 or more |

Form continues on next page. ►►

5. Account Owner Signatures and Dates

ALL account owners must sign and date. For additional owners, make a copy of this page.

By signing below, you:

- Affirm that you have received, read, understand, and agree to be bound by the Agreement as currently in effect and as may be amended in the future. The Agreement shall inure to the benefit of Fidelity's successors and assigns, whether by merger, consolidation, or otherwise. Fidelity may transfer your account to its successors and assigns, and this Agreement shall be binding upon your heirs, executors, administrators, successors, and assigns.
- Acknowledge that you will not enter any order for options until you have read and understood the *Characteristics and Risks of Standardized Options*, and supplements thereto, by The Options Clearing Corporation (the "Options Disclosure Document").
- Specifically affirm that you understand the risks of options as described in the Agreement and the Options Disclosure Document, and that in full knowledge of these risks, you have determined that options trading is appropriate for you, based on your own careful examination of your financial resources, investment objectives, and risk tolerance.
- Certify that you have provided Fidelity with the required personal, financial, and investment information for all parties authorized to place trades on this account, including any authorized agents, and that you will ensure that any parties who subsequently gain this authority will provide required information about themselves to Fidelity.
- Agree to forward copies of the Agreement and the Options Disclosure Document to any authorized agents.
- Represent and warrant that if you have not completed the section titled Associations, you are 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 are you the spouse or immediate family member residing in the same household of such a person.
- Represent and warrant that if you have not completed the section titled Affiliations, none of you, your spouse, nor any of your relatives living in your home are a control person or affiliate of a public company under SEC Rule 144.
- Acknowledge that Fidelity will not be liable for any loss, expenses, or cost arising out of your instructions, provided that it institutes reasonable procedures to prevent unauthorized transactions.
- Certify that all information you provided is true, accurate, and complete.
- You acknowledge that you have been advised by Fidelity to consult a tax advisor before completing any transaction involving options. You have not received any tax advice from Fidelity and understand that the transaction is neither allowed nor disallowed by the Internal Revenue Code.

If adding margin and/or Options Trading Levels 3, 4, or 5 to an Investment-Only Retirement Account:

- Acknowledge that you have read and understand the following points: As trustee, it is your responsibility to ensure that all account transaction and investment instructions provided are in accordance with the underlying plan and trust.

In addition to risks generally applicable to margin borrowing, utilizing margin within a tax-advantaged retirement account poses other risks, including: 1) using account assets to satisfy margin calls reduces tax-advantaged savings, 2) annual contribution limits may restrict a plan trustee's ability to satisfy margin calls, and 3) debt-financed investment income within a tax-advantaged account can generate unrelated business taxable income (UBTI). You are strongly encouraged to consult your tax or benefits advisor prior to utilizing margin borrowing on this account.

If applying for margin, you:

- Authorize Fidelity to extend margin credit on the account identified in Section 1.
- Affirm that you have received, read, understood, and agree to be bound by the terms and conditions of the Margin Agreement as is currently in effect and as may be amended in the future. It shall inure to the benefit of Fidelity's successors and assigns, whether by merger, consolidation, or otherwise. Fidelity may transfer your account to its successors and assigns, and this Margin Agreement shall be binding upon your heirs, executors, administrators, successors, and assigns.
- Hereby authorize Fidelity to hypothecate (lend) or rehypothecate, either separately or with the property of others, either to Fidelity or to others, any property in your account. This authorization shall remain in force until Fidelity receives written notice of revocation.

You acknowledge that this account is governed by a predispute arbitration clause, which appears on the last page of the Agreement, and that you have read the predispute arbitration clause.

| | |
|------------------|-----------------|
| PRINT OWNER NAME | |
| | |
| OWNER SIGNATURE | DATE MM/DD/YYYY |
| SIGN X | X |
| PRINT OWNER NAME | |
| | |
| OWNER SIGNATURE | DATE MM/DD/YYYY |
| SIGN X | X |

Form continues on next page. ►►

6. Authorized Agent If there is an authorized agent on this account, the agent must complete and sign this section. Attach an Authorized Access form (available at Fidelity.com) unless one is already on file for this authorized agent.

In this section, "you" and "your" refer to the Authorized Agent.

For additional authorized agents, make a copy of this section.

| | | |
|------------|-------------|--|
| First Name | Middle Name | Last Name |
| Title | | Relationship to Owner <small>Investment advisor, family, trustee, etc.</small> |
| | | Last four digits of SSN or Taxpayer ID |

Income Source

Check one and provide all information.

Industry regulations require us to ask for this information. Note that if you are self-employed, occupation is still required.

Employed: Self-employed:

| | |
|------------|---|
| Occupation | Employer <small>Leave blank if self-employed.</small> |
|------------|---|

Retired: Not employed:

| |
|--|
| Source of Income <small>Pension, investments, spouse, etc.</small> |
|--|

Investment Experience

Provide the number of years trading each security. If none, enter "0."

| | | | | | | | | | |
|--------|-------|-------|-------|----------|-------|----------------|-------|---------------|-------|
| Stocks | Years | Bonds | Years | Futures* | Years | Equity Options | Years | Index Options | Years |
|--------|-------|-------|-------|----------|-------|----------------|-------|---------------|-------|

Provide the average size and frequency of prior securities trades.

| | |
|--|--------------------------|
| Average Size <small>\$1,000, \$5,000, \$10,000, etc.</small> | Options trades per month |
|--|--------------------------|

*A futures contract is an agreement to buy or sell an asset at a specified price at a specified time in the future. The asset transacted is usually a commodity (such as corn, grain, or livestock) or financial instrument (such as stocks, bonds, or currencies). Futures allow investors to potentially benefit from price movements without owning the underlying asset.

7. Authorized Agent Signature and Date

In this section, "you" and "your" refer to the Authorized Agent. By signing below, you:

- Affirm that you have received, read, understand, and agree to be bound by the Agreement as currently in effect and as may be amended in the future. The Agreement shall inure to the benefit of Fidelity's successors and assigns, whether by merger, consolidation, or otherwise.
- Acknowledge that you will not enter any order for options until you have read and understood the Options Disclosure Document.
- Accept all terms and conditions described in this application and in the Agreement.

- State that you are familiar with and understand the investment objectives and trading plans of the account owner(s) and will only use trading strategies that are consistent with those objectives and plans.
- Certify that you have provided Fidelity with your required personal, financial, and investment information, and that this information is complete and truthful.
- Certify that all information you provided is true, accurate, and complete.

If applying for margin, you:

- Affirm that you have received, read, understood, and agree to be bound by the terms and conditions of the Margin Agreement as is currently in effect and as may be amended in the future. It shall inure to the benefit of Fidelity's successors and assigns, whether by merger, consolidation, or otherwise. Fidelity may transfer your account to its successors and assigns, and this Margin Agreement shall be binding upon your heirs, executors, administrators, successors, and assigns.

You acknowledge that this account is governed by a predispute arbitration clause, which appears on the last page of the Agreement, and that you have read the predispute arbitration clause.

| | |
|-----------------------------|-----------------|
| PRINT AUTHORIZED AGENT NAME | |
| AUTHORIZED AGENT SIGNATURE | DATE MM/DD/YYYY |
| SIGN X | X |

Form continues on next page. ►►



Did you print and sign the form, and attach any necessary documents?

Send the ENTIRE form and any attachments to Fidelity Investments. You will receive a new account profile, or updated account profile confirming the changes indicated on the application.

Questions? Go to [Fidelity.com/options](https://www.fidelity.com/options) or call 800-343-3548.

Use postage-paid envelope, drop off at a Fidelity Investor Center, OR deliver to:

Regular mail

Fidelity Investments
P.O. Box 770001
Cincinnati, OH 45277-0002

Overnight mail

Fidelity Investments
100 Crosby Parkway KC1K
Covington, KY 41015

On this form, "Fidelity" means Fidelity Brokerage Services LLC and its affiliates. Brokerage services are provided by Fidelity Brokerage Services LLC, member NYSE, SIPC. All trademarks and service marks indicated are the property of their respective owners. 427178.10.0 (01/20)



Options Agreement

This document describes the features, policies, costs, and risks associated with options trading. Please review this document and keep it for your records. Do not return it to Fidelity.

How to Contact Us:

For matters concerning your account, including questions, changes, and notifications of errors, reach us:

By Phone:

800-343-3548

In Writing:

Fidelity Investments
PO Box 770001
Cincinnati, OH 45277-0045

Who's Who in This Agreement

In this document, "Fidelity," "us," and "we" includes Fidelity Brokerage Services LLC (FBS), Fidelity Distributors Corporation, and National Financial Services LLC (NFS), as well as their employees, agents, and representatives, as the context may require. "You" and "account owner" refer to the registered owner(s) of the account or to any new account applicant; for any account with more than one owner or authorized person (such as a joint or trust account), "you" and "account owner" or "account owners" refer to all owners, collectively and individually.

Commitments by Fidelity and You

Fidelity's Commitments to You

Under this agreement, Fidelity has certain rights and responsibilities. When we accept your options application, we are agreeing to accept instructions on your account for buying, writing, and exercising various options strategies, in accordance with the terms described in this agreement and consistent with your commitments to Fidelity. We reserve the right to limit your ability to enter into opening options transactions.

Your Commitments to Fidelity

By signing the options application, you:

- Acknowledge that you have received this agreement that you accept the terms of this agreement, and that you will not enter any order for options until you have read and understood both the agreement and the *Characteristics and Risks of Standardized Options*, and supplements thereto, by The Options Clearing Corporation [the "Options Disclosure Document(s)"]
- Specifically affirm that you understand the risks of options as described in this agreement and the Options Disclosure Document(s), and that in full knowledge of these risks you have determined that options trading is appropriate for you, based on your own careful examination of your financial resources, investment objectives, and risk tolerance
- Acknowledge, and agree to be bound by, the rules of the Financial Industry Regulatory Authority (FINRA), the New York Stock Exchange, Inc. (NYSE), and The Options Clearing Corporation that apply to options contracts
- Agree that you, whether alone or in concert with others, will not violate the position or exercise limits of the options exchanges as set forth in the Options Disclosure Document(s)
- Agree not to hold Fidelity liable in connection with the execution, handling, selling, purchasing, or endorsing of options for your account
- Agree to let us monitor and/or record any phone conversations with you
- Agree to let us create a digital representation of your voice, a "voiceprint," that may be used for verifying your identity when you contact Fidelity

- Agree to let us verify the information you provide, such as payment and employment information, and obtain credit reports and other credit-related information about you at any time
- Agree to resolve disputes concerning your relationship with us (other than class actions) through arbitration rather than in a court of law
- Agree to notify us in writing any time there is a material change in your financial circumstances or investment objectives
- Acknowledge that Fidelity retains the right to refuse to accept an instruction for buying, writing, and/or exercising options if doing so would be contrary to applicable laws and rules or would put Fidelity at undue financial risk

Options Transaction Policies

The following policies are intended to protect you, your account, and Fidelity from potential negative impacts that may result from utilizing options strategies in your account. For example, the minimum equity/position requirement discussed below is intended to help ensure that an adequate amount of cash or securities remains in the account to cover possible costs or liabilities that may result from options strategies that you choose to utilize.

Minimum Equity/Position Requirement

For each account approved for options trading, we will determine a minimum level of equities and/or other positions that the investor must maintain in the account. We may change this amount at any time, at our discretion and without advance notice. You may contact a Fidelity representative for information on the applicable limit for your account. It is your responsibility to ensure that your required minimum has been met before writing any option. You authorize us to not generally allow withdrawals of cash or securities that would reduce either your equity or position balance to below your required minimum, and to refuse orders to sell securities that are being held in connection with your required minimum. You agree not to hold us liable for any loss that you may sustain as a result of the enforcement of this policy on required minimums.

Exercise and Assignment of Options

As the account owner, it is your responsibility to exercise, in a proper and timely manner, any right, privilege, or obligation of any put, call, or other option that we may purchase, handle, endorse, or carry for your account(s).

However, in the absence of any instructions from you, you authorize us to exercise any in-the-money options that remain in your account on their expiration day, so long as they are in-the-money by \$0.01 or greater or in accordance with Fidelity's policies then in effect, as applicable. If you do not want us to exercise any expiring options, you must notify us by 4:20 p.m. Eastern time on the expiration date by calling Fidelity at 800-343-3548. If we do not receive your instructions by this time, you agree to waive any and all claims for damage or loss that you might have against us, at that time or later, arising out of the fact that we did not receive your orders to exercise or not exercise in time.

If sufficient assets and/or other positions are not available to cover the exercise or assignment of an option, you authorize Fidelity to take the following actions while charging the Rep-Assisted commission rate:

- place an order to close option positions
- place an order to minimize market risk (for example, if it would result in a short position or cash debit in an account not enabled for margin, result in an equity level that is below the aforementioned minimum, or if there are no shares available for a short sale)
- instruct the OCC not to exercise valuable options on or prior to the last trading day

If an option is exercised or assigned, you authorize us to close out the unsupported equities positions that result from the exercise. You agree to waive and to release us and our officers, employees and agents from any and all claims of damage or loss, then or at a later time sustained, as a result of the exercise or nonexercise of an option contract(s).

If an option assignment results in a short position of a security in your account, you understand that you may be charged short interest fees to maintain that position in your account. In addition, securities that initially are not hard to borrow and have a fee associated with them may subsequently become unavailable or hard to borrow, in which case you agree to be responsible for payment of any and all related fees, including daily short interest fees. When an option is exercised, you will be charged the full aggregate exercise price for any underlying security.

Purchasing Expiring Options

On the expiration date of an equity option, Fidelity may (i) restrict your ability to place new opening transactions and (ii) cancel any unexecuted opening transactions. The timing of these actions may vary.

Allocation of Exercise and Assignment Notices

In allocating exercise notices, we use the random selection method, meaning that the options to be exercised are selected at random from all short option positions that are open at the time (including those established that day). Equity trades that result from an option exercise or assignment are allocated to net your position(s) in order to minimize short against the box scenarios, unless you instruct us otherwise prior to settlement. All short option positions may be assigned at any time. A detailed description of this method is available upon written request.

Protective Steps You Authorize Us to Take

You authorize us to hold any securities and funds in any of your Fidelity accounts and use them as security for the performance of your obligations to us under this agreement with respect to any open options position.

If you have margin on your account, and you do not meet our margin calls promptly, we may, in our sole discretion and without notifying you, take any and all steps necessary to protect ourselves in connection with options transactions made for your account. This may include such steps as buying or selling short any or all shares represented by options in your account, or buying, selling, exercising, or blocking the exercise of any put or call options. In such a case, you will be required to reimburse us for any losses and expenses that we incur, including attorneys' fees.

If you become insolvent or die, or if your property is attached by others, we may take whatever steps we consider necessary or appropriate to protect our interests against loss.

All obligations and liabilities arising under this account are joint and several, and we may enforce them against any or all account holders. Although Fidelity may use other methods when it determines they may be more appropriate, Fidelity reserves the right to use the provisions described in this section at any time, except in cases involving retirement accounts when these provisions would conflict with the Employee Retirement Income Security Act of 1974 (ERISA) or the Internal Revenue Code of 1986 (IRC), both as amended.

Options Transaction Policies for Fidelity Individual Retirement Accounts

A Fidelity IRA, a Fidelity IRA Rollover, a Fidelity SEP-IRA, a Fidelity Roth IRA, or a SIMPLE IRA (Fidelity IRA) are eligible for writing covered calls, buying calls/puts, and buying long straddles/strangles/combinations with respect to index and equity options. Put and call options strategies that are generally known as options spreads (Options Spreads) may be permitted in a Fidelity IRA account provided certain conditions are met.

The following options policies, which are designated by Fidelity as a form of margin agreement for your Fidelity IRA, provide you with important terms and conditions for buying, writing, and exercising various options strategies, including Options Spreads, in your Fidelity IRA.

Restrictions

- Spread positions in Fidelity IRAs require a minimum of \$2,000 to be set aside in an interest-bearing account referred to in your balances as "Cash Spread Reserve."
- You must meet the initial and maintenance requirements for your options positions, including Options Spreads, at all times or your positions may be closed by Fidelity without notice. This may include closing out a leg of a spread if the other leg has been exercised or an assignment occurs.

Suitability

You acknowledge that investing in options can be very risky and that you have read the "Important Information about Options Trading and Its Risks" section in this agreement. You acknowledge that your decision to trade

in options in your Fidelity IRA is solely your decision and that Fidelity has not directly or indirectly solicited you or recommended that you trade in options or that you develop or implement Options Spreads. You agree that Fidelity has not and will not recommend any options trades, including puts or calls or other options trades or Options Spreads, in your Fidelity IRA. While Fidelity will implement Options Spreads instructions it receives from you, you understand and agree that Fidelity is not responsible for determining the appropriateness or suitability of any options you purchase or sell in your Fidelity IRA. **You are advised to consult a tax advisor before engaging in any option transactions in our Fidelity IRA.**

Fidelity IRA Limitations and Representations

You acknowledge and agree to the following terms, conditions, and representations:

- Fidelity's approval of your Fidelity IRA for option trading, including spreads, does not mean that Fidelity has endorsed, solicited, recommended, or approved of any option transaction in your Fidelity IRA.
- Margin borrowing will not be made available in your Fidelity IRA because of applicable regulatory limitations.
- You are solely responsible for ensuring that sufficient assets are maintained in your Fidelity IRA to cover all potential obligations arising from option transactions or options strategies, including Option Spreads, allowed in your Fidelity IRA.
- It is your responsibility not to enter into any option transactions or strategies, including Option Spreads, that can result in you owing in excess of your Fidelity IRA balance.
- An obligation in your Fidelity IRA in excess of your applicable Fidelity IRA account balance can result in a taxable distribution of the IRA assets and the imposition of excise taxes.
- You agree to maintain a sufficient cash balance in your Fidelity IRA to satisfy all obligations that may arise from option transactions or Options Spreads and during the time that such options are held or Options Spreads are conducted in your Fidelity IRA. You further understand and acknowledge that amounts available for purchases within your Fidelity IRA may be limited due to amounts needed to satisfy options or Options Spreads obligations.
- Fidelity shall not be responsible for the dishonor of any transaction due to an insufficient balance in your Fidelity IRA.
- To the extent that options transactions or Options Spreads create a short or debit position in your Fidelity IRA core account, such short or debit position will immediately be covered with other assets from your Fidelity IRA.
- You assume full responsibility for reviewing the terms of any investment in your Fidelity IRA and hereby represent that maintaining options transactions, including Options Spreads, in your Fidelity IRA does not and will not violate the terms and conditions of the applicable *Fidelity IRA Custodial Agreement and Disclosure Statement*.
- Transactions in my Fidelity IRA do not and will not constitute a prohibited transaction as defined under ERISA, the IRC and related regulations, interpretations, and guidance, and are otherwise in compliance with all applicable laws, rules, and regulations.
- You have been advised to consult your tax advisor regarding the advisability of holding options or conducting Options Spreads in your Fidelity IRA.
- If Fidelity provides research or other information relating to options, including Options Spreads, you understand and agree that any such research or other information is provided solely as an incident to the provision of brokerage services by Fidelity and is not intended to serve as a primary basis for your investment decisions relating to your Fidelity IRA. Any such research or information will not serve as a primary basis for your decision to engage in options trading, including Options Spreads, in your Fidelity IRA.

Additional Representations

You represent and warrant the following: (1) you have determined that it is suitable for you to trade options and conduct Options Spreads in your Fidelity IRA; (2) you will not engage in any transaction including Options Spreads in your Fidelity IRA that would result in any hypothecation or extension of credit by Fidelity or its affiliates; and (3) you have not relied on Fidelity or any of its affiliates for any investment research, advice (including, but not limited to, investment, business, legal, or tax advice), or information in connection with options trading or strategies pertaining to your Fidelity IRA.

Important Information about Options Trading and Its Risks

Before you make use of options in any way, it's essential to fully understand the risks involved, and to be certain that you are prepared to accept them. The bullets below outline general risks as well as the special risks associated with writing uncovered options.

General Risks

- **Options are complex and risky, and are not suitable for many investors.** This applies to both the purchase and the writing of options. Unless you clearly understand the rights and obligations that an options transaction creates for you—and the inherent risks involved, especially during extreme market volatility or trading volumes—you should avoid options.
- **When buying an option, or when writing a covered call option, you can lose 100% of your investment.** This includes both the premium you paid and your transaction costs. A covered call option is one for which you own the underlying security (or another security convertible, exchangeable, or exercisable into that security). As noted below, with uncovered options, you can lose more than 100% of your investment.
- **Many factors affect the price of an options contract.** Pricing can be influenced by such factors as the relationship between the exercise price and the market price of the underlying security, the expiration date of the option, and the price fluctuations or other characteristics of the underlying stock.
- **Market conditions or temporary restrictions of trading or exercising may interfere with your trading plans.** If the secondary market for a given option were to become unavailable—temporarily or permanently—investors could not engage in closing transactions, and an option writer would remain obligated until expiration or assignment.

In addition, an options exchange or any regulatory body with jurisdiction may restrict transactions in particular options, or the exercise of options contracts, from time to time and based solely on their own discretion.

- **Index options have special characteristics and risks.** Index option exercises are settled with cash, not securities. In addition, because the exercise price of an index option is always based on the closing index value, an index option that is in the money during trading hours may be out of the money when the closing value is calculated—a risk to consider whenever you place an exercise order before the closing value is known.

Additional Risks of Uncovered Options

Writing uncovered options is suitable only for the investor who understands the risks, has the financial capacity and willingness to incur potentially substantial losses, and has sufficient liquid assets to meet applicable margin requirements.

- **Any time you write an uncovered option, you expose yourself to significant financial losses.** If the value of the underlying instrument(s) moves against you, your losses could be many times greater than the cost of the option itself. If an underlying instrument is affected by rapid price volatility or high trading volume, you may be unable to close out your position and you may be forced to endure significantly greater losses than otherwise.
- **With certain uncovered options, your potential losses are unlimited.** These include writing an uncovered call and combination writing (writing both a put and a call on the same underlying instrument). The risk of writing an uncovered put option is not theoretically unlimited, but in practice the losses can be as substantial as with writing an uncovered call.
- **Writing uncovered options may trigger a margin call.** If the value of an underlying instrument moves against your uncovered options position, your broker may demand significant additional margin payments. If you're not able to make these payments, your broker may sell securities in your accounts, liquidate options positions, or take other measures as described in your margin agreement.
- **American-style options work differently from European-style options.** The writer of an American-style option is subject to being assigned an exercise at any time after he or she has written the option until the option expires. By contrast, the writer of a European-style option is subject to exercise assignment only during the exercise period.

The information here is only a summary of the risks associated with options. As required by this agreement, be sure to read "Characteristics and Risks of Standardized Options," in particular the chapter called "Risks of Buying and Writing Options."

If you have any questions or concerns about options, please contact Fidelity.

Important Information about Margin Trading and Its Risks

About Margin Trading and Its Risks

Trading on margin lets you borrow money from NFS, an affiliate of FBS, using securities you already own as collateral to purchase additional securities, sell securities short, protect your account from overdraft, or access a convenient line of credit. A margin account is designed primarily to finance additional purchases of securities, although it can also provide overdraft protection for your cash management activities. **Before you make use of margin in any way, it's essential to fully understand the risks involved. Margin can involve significant costs and risks and is not appropriate for all investors.** Account owners must determine whether margin is consistent with their investment objectives, income, assets, experience, and risk tolerance; and no investment or use of margin is guaranteed to achieve any particular objective. Risks of margin trading include:

You can lose more money than you deposited in your margin account. If securities you bought on margin go down in price, you may face a "margin call," meaning you have to deposit more money or marginable securities.

Fidelity can set stricter margin requirements than the industry minimum, and can increase these "house" requirements in its sole discretion without advance notice. An increase may take effect immediately and may trigger a maintenance margin call without prior notice.

If you cannot meet a margin call, Fidelity can force the sale of assets in your account(s). If the equity in your account falls below either industry minimums or Fidelity's house requirements, Fidelity can cover the deficiency by selling securities or other assets in any account of yours at Fidelity (including accounts at other Fidelity affiliates) without prior notice. If these assets are insufficient, you will be responsible for making up any shortfall, and potentially for paying Fidelity's costs for collecting the shortfall as well.

Fidelity can sell assets in your account without contacting you. While Fidelity generally attempts to notify customers of margin calls, it is not required to do so. Even if you are notified, Fidelity can still sell assets before the time indicated in the notice, if it believes such action is warranted. You understand that if we contact you in advance in certain instances, we are not obligated to do so and such action will not be deemed a waiver of our rights under this agreement.

Important Information about Margin Trading and Its Risks *continued*

You are not entitled to choose which securities are sold to meet a margin call. Because your accounts form Fidelity's collateral for its loan to you, the choice of what to sell is Fidelity's.

You are not entitled to a time extension on a margin call. While Fidelity may grant you an extension, it is not required to do so.

Granting an extension on a margin call does not waive Fidelity's right to decline to grant an extension in the future.

Short selling is a margin account transaction and entails the same risks as described above. Fidelity can use your account to buy securities to cover a short position without contacting you. If you don't have sufficient assets, you are responsible for the shortfall and collection costs.

Fidelity can loan out (to itself or others) the securities that collateralize your margin borrowing. If it does, you may not be entitled to receive, with respect to securities that are lent, certain benefits that normally accrue to a securities owner, such as the ability to exercise voting rights, or to receive interest, dividends, or other distributions. Although you may receive substitute payments in lieu of distributions, these payments may not receive the same tax treatment as actual interest, dividends, or other distributions, and you may therefore incur additional tax liability for substitute payments. Fidelity may allocate substitute payments by lottery or in any other manner permitted by law, rule, or regulation.

Please note that any substitute payments Fidelity makes are voluntary, and may be discontinued at any time.

We may sell your securities or other assets without contacting you. Some investors mistakenly believe that Fidelity must contact them for a margin call to be valid, and that Fidelity cannot liquidate securities or other assets in their accounts unless Fidelity has contacted them first. This is not the case. Fidelity may attempt to notify you of margin calls, but is not required to do so. In addition, even if Fidelity has contacted you and provided a specific date by which you can meet a margin call, Fidelity can still take the necessary steps to protect its financial interest prior to that date, including immediately selling the securities without notice to you. If your application for margin is approved, you agree and acknowledge that if Fidelity contacts you in advance in certain instances, Fidelity is not obligated to do so and such action will not be deemed a waiver of Fidelity's rights under this agreement.

In addition to market volatility, factors specific to your portfolio, such as concentration, liquidity, and marketability of securities, may increase the risk of a margin call. Use of features such as checkwriting, bank cards, and bill payment services may also increase the risk of a margin call. In the absence of (i) an Intra-day Free Credit Balance (during normal hours when the market is open ["Intra-day"]), any new deposit to your Account or settlement proceeds from a transaction in your Account are held as a free credit balance [the "Intra-day Free Credit Balance"], (ii) money in the core account, (iii) shares of certain Fidelity money market funds held as positions outside the core account, or (iv) cash dividends paid on marginable securities, any debits that are posted to your account will drive up your margin balance.

You may pay for securities you buy in your account in full, or you may borrow part of the purchase price from us, using a margin account. When you borrow on margin, the securities in your account become our collateral for the loan to you. A decline in the value of these securities is therefore a decline in the value of the collateral. We can respond by taking any of the following steps at any time without prior notice:

- sell assets, or contracts relating to these, that are in your account
- buy assets, or contracts relating to these, of which your account or accounts may be short, in order to close out in whole or in part any commitment on your behalf
- place stop orders with respect to these securities

How and when we can take these steps:

- at any time, during regular market hours or otherwise
- with or without notifying you that a call is due and even if you have notified Fidelity that you will be providing additional collateral for your Account
- for any cause, including but not limited to:
 - if the value of your account equity falls
 - if you fail to meet—or indicate that you intend to fail to meet—any call for additional collateral
 - high market volatility
 - an account owner's death or petition for bankruptcy
 - an attachment or court order
 - any other situation which Fidelity, in its sole discretion, believes is warranted to prevent the account from going deficit

Margin Account Features

- The following account types are NOT eligible for margin:
 - 529 College Savings Plans
 - Health Savings Accounts
 - Custodial accounts (UGMA/UTMA)
 - Estate accounts
 - Fiduciary accounts (guardian and conservator)
 - Fidelity IRAs including 401(k) plans and Keoghs
 - Cash Management Accounts (CMA)
 - Investment Club Accounts
 - Mutual Fund Accounts
 - Portfolio Advisory Services (PAS) Accounts
- IRAs may have supplemental limited margin and/or options spread trading added.
- For accounts with identical registrations, only one of the accounts with the same registration is eligible for margin.
- Margin will not be granted if we determine that you reside outside of the United States.
- With joint registration accounts, any obligations or liabilities resulting from one account owner's actions are joint and several (i.e., are the responsibility of each account owner, both individually and jointly). We may enforce this agreement and the Customer Agreement relevant to your account against all account owners or against any owner individually. Each owner of a joint account may act as if he or she were the sole owner of the account, with no further notice or approval necessary from any joint owner. For example, one owner may buy and sell securities, withdraw assets, transfer assets into or out of the account, borrow against the account through margin, arrange for account statements to be sent only to him or her, view all available historical account documents or change the account's features and services (although no account owner may remove another's name from the account).
- Debits to resolve securities transactions (including margin calls) or the payment of account fees will be given priority over other debits, such as checks or debit card transactions.
- If certain of the sources are not enough to satisfy a given debit, we reserve the right to take action as we see fit, including if you have a margin account and the unsatisfied debit is for a securities purchase, drawing on the available balance of another account of yours at Fidelity. If you have a margin account, we may transfer to that account any unresolved debit from other accounts of yours.

Important Information about Margin Trading and Its Risks continued

- We may also use property to satisfy a margin deficiency or other obligation, whether or not we have made advances in connection with this property. This provision extends to any property held by you or carried for any account of yours, including any credit balances, assets, and contracts, as well as shares of any mutual funds or other investment companies for which Fidelity or an affiliate provides management or administrative services. Although Fidelity may use other methods when it determines they may be more appropriate, Fidelity reserves the right to use the provisions described in this section at any time, except in cases involving retirement accounts when these provisions would conflict with the Employee Retirement Income Security Act of 1974 (ERISA) or the Internal Revenue Code of 1986, both as amended.
- Retirement accounts and Fidelity BrokerageLink® accounts cannot trade foreign securities or sell short, are not eligible for margin loans, and may be subject to other rules and policies. Please see the literature for these accounts for details.
- Your account statements will show all activity in your account for the stated period, including securities transactions, cash and margin balances, credits and debits, and all fees paid directly from your account.
- You have the right to withdraw excess margin securities, provided your account is not subject to restriction under the Federal Reserve's Regulation T or such withdrawal will not cause an undermargined condition.
- In addition to reinvestment of mutual fund dividends, reinvestment of dividends from eligible equities and closed-end funds is an option for most Fidelity accounts, including those with margin. You can choose to have the service apply to all eligible securities in your account, or only to certain ones. You can request this feature on your account application (for all securities) or subsequently by phone or in writing (for all securities or for individual ones).

FBS is responsible for:

- Operating and supervising your account and its own activities in compliance with applicable laws and regulations, including compliance with federal, industry and NFS margin rules pertaining to your margin account and for advising you of margin requirements
- Extending margin credit for purchasing or carrying securities on margin.

By applying for margin trading, you agree:

- that you are responsible for any losses in your account that may arise as a result of any action outlined above. Note that property in a margin account may be pledged or repledged, hypothecated

(loaned) or rehypothecated, either separately or in common with any other property, for as much as your obligation to us or more, without our having to retain a like amount of similar property in our control for delivery. Also, we may at any time, and without notice to you, transfer any property between any of your accounts, whether individual or joint, or from any of your accounts to any account you guarantee. As permitted by law, we may use certain securities for, among other things, settling short sales and lending securities for short sales and as a result may receive compensation in connection therewith.

- that all marginable assets will be held in a margin account, unless you tell us to the contrary (precious metals are not marginable). The Intraday Free Credit Balance, money in the core account, and any cash dividends paid on marginable securities, are automatically applied to your margin debt every month, unless you tell us otherwise.
- When you borrow on margin, you agree to maintain the level of margin collateral we require (which we may change in our sole discretion at any time without prior notice).
- to let us verify the information you provide and obtain credit reports and other credit-related information about you at any time, such as payment and employment information (whether for margin or any other purpose), and to permit any third-party financial service provider to do likewise.
- to authorize Fidelity to lend property of yours that has been pledged as collateral, and to comply with all provisions of this agreement concerning margin, including determining that margin borrowing is appropriate for you, based on your own careful examination of your financial resources, investment objectives, and risk tolerance.
- to refer to the Customer Agreement for more on Fidelity's brokerage fee schedules, fees for various features and services, and margin borrowing charges. Note that foreign jurisdictions may impose additional fees, taxes, or other charges from time to time, which may not be reflected in the fee schedule in effect at that time. By placing a trade in a foreign security, you agree to pay any such applicable fees, taxes, or other charges, regardless of notice.
- that the credit balance in the short account will be decreased or increased in accordance with the corresponding market values of all short positions. Corresponding debits or credits will be posted to the margin account. These entries in the margin account will, of course, affect the balance on which interest is computed. Credits in your short account, other than marking to market, will not be used to offset your margin account balance for interest computation.

If you have any questions or concerns about your margin account or margin generally, please contact Fidelity.

Limits to Our Responsibility

Although we strive to ensure the quality and reliability of our services, including electronic services (such as online, wireless, and automated telephone services), neither we nor any third party whose services we arrange for are responsible for the availability, accuracy, timeliness, completeness, or security of any service related to your account.

You therefore agree that we are not responsible for any losses you incur (meaning claims, damages, actions, demands, investment losses, or other losses, as well as any costs, charges, attorneys' fees, or other fees and expenses) as a result of any of the following:

- The acceptance and processing of any order placed on your account, whether received electronically or through other means, as long as the order reasonably appears to be authentic
- Cancellation of an accepted/executed trade in which Fidelity reasonably determines, in its sole discretion, that there was a data, clerical, or other similar error in the handling or processing of the trade, including but not limited to situations where a third party caused such error
- Investment decisions or instructions placed on your account, or other such actions attributable to you or any authorized person
- Occurrences related to governments or markets, such as restrictions, suspensions of trading, or high market volatility or trading volumes

- Uncontrollable circumstances in the world at large, such as wars, earthquakes, power outages, or unusual weather conditions
- Occurrences related to computers and communications, such as a network or systems failure, a message interception, or an instance of unauthorized access or breach of security
- With respect to electronically provided market data or other information provided by third parties, any flaw in the timing, transmission, receipt, or substance (such as any inaccuracy, error, delay, omission, or sequence error, any nonperformance, or any interruption of information), regardless of who or what has caused it to occur
- The storage and use of information about you and your account(s) by our systems and transmission of this information between you and us; these activities occur entirely at your risk
- The usage of information received by you or us through any electronic services
- Difficulties receiving information or accessing your account that are due to the equipment you use, including difficulties resulting from technical incompatibilities, malfunctions, inherent limitations, or interruptions in service

Indemnification

You agree to indemnify us from, and hold us harmless for, any losses (as defined in "Limits to Our Responsibility") resulting from your actions or failures to act, whether intentional or not, including losses resulting from actions taken by third parties. If you use any third-party services or devices in connection with your account (such as Internet service or wireless devices), all service agreements and payments for these are your responsibility. Rates and terms are set by the service providers and are not Fidelity's responsibility. Note that beyond taking reasonable steps to verify the authenticity of instructions, we have no obligation to inquire into the purpose, wisdom, or propriety of any instruction we receive.

Terms Concerning This Agreement

If you have a margin agreement with Fidelity, it is incorporated into this one by reference (legally considered part of this document). In the case of any conflict between the two agreements, this one will prevail.

This agreement and its enforcement are governed by the laws of the Commonwealth of Massachusetts, except with respect to its conflicts-of-law provisions.

All options transactions and exercises are subject to the rules and customs of The Options Clearing Corporation and of the marketplace where they are executed, as well as to applicable state and federal laws.

We may amend or terminate this agreement at any time. This may include changing, dropping, or adding fees and policies, changing features and services or the entities that provide them, and limiting the usage or availability of any feature or service, within the limits of applicable laws and regulations. Although it is our policy to send notice to account owners of any material changes, we are not obligated to do so in most cases. Outside of changes originating in these ways, no provision of this agreement can be amended or waived except in writing by an authorized representative of Fidelity.

Fidelity may transfer its interests in this account or agreement to any of its successors and assigns, whether by merger, consolidation, or otherwise. You may not transfer your interests in your account or agreement (including de facto transferral by giving a non-owner access to the account using a personal identification number [PIN]), except with the prior writ-

ten approval of Fidelity, or through inheritance, corporate dissolution, or similar circumstance, as allowed by law, in which case any rights and obligations in existence at the time will accrue to, and be binding on, your heirs, executors, administrators, successors, or assigns.

We may enforce this agreement against any and all account owners. Although we may not always enforce certain provisions of this agreement, we retain our full right to do so at any time.

If any provision of this agreement is found to be in conflict with applicable laws, rules, or regulations, either current or future, that provision will be enforced to the maximum extent allowable, or made to conform, as the case may be. However, the remainder of this agreement will remain fully in effect.

Disclosures

Receipt of Communications

Note that so long as we send communications to you at the physical or electronic address of record given on the application, or to any other address given to us by an authorized person, the communications are legally presumed to have been delivered, whether you actually receive them or not. In addition, confirmations and statements are legally presumed to be accurate unless you specifically tell us otherwise.

Personal Information

For the name and address of any credit reporting agency from which we or a card issuer has obtained information about you, send a written request to us or the card issuer, as applicable.

Service Providers

Brokerage account and margin credit services are provided by NFS, an affiliate of FBS. Services available through this account are the property of Fidelity or the third parties from which Fidelity has obtained rights.

Routing of Orders

Some options are traded in more than one marketplace. Absent any specific instructions from you, we may choose the market in which your transactions in these options are executed.

Resolving Disputes—Arbitration

This agreement contains a predispute arbitration clause. Under this clause, which you agree to when you sign your account application, you and Fidelity agree as follows:

- A. All parties to this agreement are giving up the right to sue each other in court, including the right to a trial by jury, except as provided by the rules of the arbitration forum in which a claim is filed.
- B. Arbitration awards are generally final and binding; a party's ability to have a court reverse or modify an arbitration award is very limited.
- C. The ability of the parties to obtain documents, witness statements, and other discovery is generally more limited in arbitration than in court proceedings.
- D. The arbitrators do not have to explain the reason(s) for their award unless, in an eligible case, a joint request for an explained decision has been submitted by all parties to the panel at least 20 days prior to the first scheduled hearing date.
- E. The panel of arbitrators may include a minority of arbitrators who were or are affiliated with the securities industry.
- F. The rules of some arbitration forums may impose time limits for bringing a claim in arbitration. In some cases, a claim that is ineligible for arbitration may be brought in court.
- G. The rules of the arbitration forum in which the claim is filed, and any amendments thereto, shall be incorporated into this agreement.

All controversies that may arise between you and us concerning any subject matter, issue or circumstance whatsoever (including, but not limited to, controversies concerning any account, order, distribution, rollover, advice interaction or transaction, or the continuation, performance, interpretation or breach of this or any other agreement between you and us, whether entered into or

arising before, on or after the date this account is opened) shall be determined by arbitration in accordance with the rules then prevailing of the Financial Industry Regulatory Authority (FINRA) or any United States securities self-regulatory organization or United States securities exchange of which the person, entity or entities against whom the claim is made is a member, as you may designate. If you commence arbitration through a United States self-regulatory organization or United States securities exchange and the rules of that organization or exchange fail to be applied for any reason, then you shall commence arbitration with any other United States securities self-regulatory organization or United States securities exchange of which the person, entity or entities against whom the claim is made is a member. If you do not notify us in writing of your designation within five (5) days after such failure or after you receive from us a written demand for arbitration, then you authorize us to make such designation on your behalf. The commencement of arbitration through a particular self-regulatory organization or securities exchange is not integral to the underlying agreement to arbitrate. You understand that judgment upon any arbitration award may be entered in any court of competent jurisdiction.

No person shall bring a putative or certified class action to arbitration, nor seek to enforce any predispute arbitration agreement against any person who has initiated in court a putative class action; or who is a member of a putative class action who has not opted out of the class with respect to any claims encompassed by the putative class action until: (i) the class certification is denied; or (ii) the class is decertified; or (iii) the customer is excluded from the class by the court. Such forbearance to enforce an agreement to arbitrate shall not constitute a waiver of any rights under this agreement except to the extent stated herein.