

**Supplement Dated May 11, 2020**  
To the Prospectus and Statement of Additional Information,  
each dated May 1, 1996, as amended

**VOYA EXTRA ASSETS**  
(Formerly known as ING Aextra Assets)

Issued by Voya Retirement Insurance and Annuity Company  
Through its Variable Annuity Account B

*This supplement updates the Prospectus and Statement of Additional Information (“SAI”) for your variable annuity contract and any subsequent supplements thereto. Please read it carefully and keep it with your copy of the Prospectus and SAI for future reference. If you have any questions, please call Customer Service at 1-800-366-0066.*

**IMPORTANT INFORMATION ABOUT THE INTERNET AVAILABILITY OF  
FUND SHAREHOLDER REPORTS**

**Internet Availability of Fund Shareholder Reports.** Beginning on January 1, 2021, as permitted by regulations adopted by the SEC, paper copies of the shareholder reports for the funds available under your contract will no longer be sent by mail, unless you specifically request paper copies of the reports from the Company. Instead, the reports will be made available on a website, and you will be notified by mail each time a report is posted and provided with a website link to access the report.

If you already elected to receive shareholder reports electronically, you will not be affected by this change and you need not take any action. If available, you may elect to receive shareholder reports and other communications from the Company electronically by contacting Customer Service.

You may elect to receive all future reports in paper free of charge. You can inform the Company that you wish to continue receiving paper copies of your shareholder reports by calling 1-800-283-3427. Your election to receive reports in paper will apply to all funds available under your contract.

**IMPORTANT INFORMATION ABOUT TAX LAW CHANGES UNDER THE SECURE ACT**

On December 31, 2019, the Setting Every Community Up for Retirement Enhancement Act of 2019 (the “SECURE Act”) amended prior tax law affecting individual retirement annuities (“IRAs”) and certain qualified retirement plans. The following is a summary of certain provisions in the SECURE Act. **This summary is not intended to provide tax or legal advice and you should consult with a tax and/or legal adviser to determine how the SECURE Act affects you and your particular situation.**

**Increase in Required Minimum Distribution (“RMD”) Beginning Date**

For distributions required to be made after December 31, 2019, the SECURE Act increases the RMD age to age 72 (age 70½ if born before July 1, 1949).

**Distributions for Birth or Adoption of a Child**

Except in limited circumstances, the Tax Code imposes a 10% additional tax on the taxable portion of any distribution from an IRA or qualified retirement plan before age 59½. The SECURE Act provides an additional exception from this 10% additional tax for qualified birth or adoption distributions.

## Repeal of Maximum Age for Contributions to a Traditional IRA

The SECURE Act eliminated the maximum age after which contributions to a traditional IRA were not allowed. Consequently, individuals who have attained age 70½ will no longer be prohibited from making non-rollover contributions to traditional IRAs.

## Required Distributions Upon Death

Upon your death, any remaining interest in an IRA or qualified retirement plan must be distributed in accordance with federal income tax requirements under Section 401(a)(9) of the Tax Code. The death benefit provisions of your Contract will be interpreted to comply with those requirements. The SECURE Act amended the post-death distribution requirements that are generally applicable with respect to deaths occurring after 2019. The post-death distribution requirements under prior law continue to apply in certain circumstances.

**Prior Law.** Under prior law, if you die prior to the required beginning date, the remaining interest must be distributed (1) within five years after the death (the “5-year rule”); or (2) over the life of the designated beneficiary, or over a period not extending beyond the life expectancy of the designated beneficiary, provided that such distributions commence within one year after death (the “lifetime payout rule”). If you die on or after the required beginning date (including after the date distributions have commenced in the form of an annuity), the remaining interest must be distributed at least as rapidly as under the method of distribution being used as of the date of death (the “at-least-as-rapidly rule”).

**The New Law.** Under the new law, if you die after 2019, and you have a designated beneficiary, any remaining interest must be distributed within ten years after your death, unless the designated beneficiary is an eligible designated beneficiary (“EDB”) or some other exception applies. A designated beneficiary is any individual designated as a beneficiary by you, the IRA owner or employee. An EDB is any designated beneficiary who is (1) your surviving spouse; (2) your minor child; (3) disabled; (4) chronically ill; or (5) an individual not more than ten years younger than you. An individual’s status as an EDB is determined on the date of your death.

This ten-year post-death distribution period applies regardless of whether you die before your required beginning date or you die on or after that date (including after distributions have commenced in the form of an annuity). However, if the beneficiary is an EDB and the EDB dies before the entire interest is distributed under this ten-year rule, the remaining interest must be distributed within ten years after the EDB’s death (i.e., a new ten-year distribution period begins).

Instead of taking distributions under the new ten-year rule, an EDB can stretch distributions over life, or over a period not extending beyond life expectancy, provided that such distributions commence within one year of your death, subject to certain special rules. In particular, if the EDB dies before the remaining interest is distributed under this stretch rule, the remaining interest must be distributed within ten years after the EDB’s death (regardless of whether the remaining distribution period under the stretch rule was more or less than ten years). In addition, if your minor child is an EDB, the child will cease to be an EDB on the date the child reaches the age of majority, and any remaining interest must be distributed within ten years after that date (regardless of whether the remaining distribution period under the stretch rule was more or less than ten years).

If your beneficiary is not an individual, such as a charity, your estate, or in some cases a trust, any remaining interest after your death generally must be distributed under prior law in accordance with the 5-year rule or the at-least-as-rapidly rule, as applicable (but not the lifetime payout rule). However, if your beneficiary is a trust and all the beneficiaries of the trust are individuals, the new law may apply pursuant to special rules that treat the beneficiaries of the trust as designated beneficiaries, including special rules allowing a beneficiary of a trust who is disabled or chronically ill to stretch the distribution of their interest over their life or life expectancy in some cases. **You should consult a professional tax adviser about the federal income tax consequences of your beneficiary designations, particularly if a trust is involved.**

More generally, the new law applies if you die after 2019, subject to several exceptions. In particular, if you are an employee under a governmental plan, such as a governmental 457(b) plan, the new law applies to your interest in that plan if you die after 2021. In addition, if your plan is maintained pursuant to one or more collective bargaining agreements, the new law generally applies to your interest in that plan if you die after 2021 (unless the collective bargaining agreements terminate earlier).

In addition, the new post-death distribution requirements generally do not apply if the IRA owner or employee died prior to January 1, 2020. However, if the designated beneficiary of the deceased IRA owner or employee dies after January 1, 2020, any remaining interest must be distributed within ten years of the designated beneficiary's death. Hence, this ten-year rule generally will apply to a contract issued prior to 2020 which continues to be held by a designated beneficiary of an IRA or employee who died prior to 2020.

It is important to note that under prior law, annuity payments that commenced under a method that satisfied the distribution requirements while the IRA owner or employee was alive could continue to be made under that method after the death of the IRA owner or employee. Under the new law, however, if you commence taking distributions in the form of an annuity that can continue after your death, such as in the form of a joint and survivor annuity or an annuity with a guaranteed period of more than ten years, any distributions after your death that are scheduled to be made beyond the applicable distribution period imposed under the new law might need to be accelerated at the end of that period (or otherwise modified after your death if permitted under federal tax law and by us) in order to comply with the new post-death distribution requirements.

**Certain transition rules may apply. Please consult your tax adviser.**

**Start Dates for Spousal Beneficiaries.** Under the new law, as under prior law, if your beneficiary is your spouse, your surviving spouse can delay the application of the post-death distribution requirements until after your surviving spouse's death by transferring the remaining interest tax-free to your surviving spouse's own IRA, or by treating your IRA as your surviving spouse's own IRA.

The post-death distribution requirements are complex and unclear in numerous respects. The Internal Revenue Service and U.S. Department of the Treasury have issued very little guidance on the new law. In addition, the manner in which these requirements will apply will depend on your particular facts and circumstances. **You should consult a professional tax adviser for tax advice as to your particular situation.**

## IMPORTANT INFORMATION ABOUT THE TEMPORARY RULES UNDER THE CARES ACT

On March 27, 2020, Congress passed and the President signed into law the Coronavirus Aid, Relief and Economic Security Act (the "CARES Act"). Among other provisions, the CARES Act includes temporary relief from certain of the tax rules applicable to IRAs and qualified plans. The scope and availability of this temporary relief may vary depending on a number of factors, including (1) the type of IRA or plan with which the Contract is used; (2) whether a plan sponsor implements a particular type of relief; (3) your specific circumstances; and (4) future guidance issued by the Internal Revenue Service and the Department of Labor. **You should consult with a tax and/or legal adviser to determine if relief is available to you before taking or failing to take any actions involving the IRA or other qualified contract.**

**Required Minimum Distributions.** The CARES Act waives the requirement to take minimum distributions from IRA and defined contribution plans in 2020. The waiver applies to any minimum distribution due from such an arrangement in 2020, including minimum distributions with respect to the 2019 tax year that are due in 2020.

The relief applies both to lifetime and post-death minimum distributions due in 2020. In that regard, the CARES Act also provides that if the post-death five-year rule described above under "**Required Distributions Upon Death**" applies, the five-year period is determined without regard to calendar year 2020. It is unclear whether this special exception extends to the ten-year period also described above under that same heading.

**Distributions.** The CARES Act provides relief for coronavirus-related distributions made from an "eligible retirement plan" (defined below) to a "qualified individual" (defined below). The relief:

- Permits in-service distributions, even if such amounts are not otherwise distributable from the plan under Tax Code sections 401(k), 403(b), or 457;
- Provides an exception to the 10% Additional Tax under Tax Code section 72(t);
- Exempts the distribution from the mandatory 20% withholding applicable to eligible rollover distributions;
- Permits an IRA owner or employee to include income attributable to the distribution over the three-year period beginning with the year the distribution would otherwise be taxable unless the taxpayer elects out; and
- Permits recontribution of the distribution to an IRA or eligible retirement plan within three years, in which case the recontribution is generally treated as a direct trustee to trustee transfer within 60 days of the distribution.

The distribution must come from an “eligible retirement plan” within the meaning of Tax Code section 402(c)(8)(B), *i.e.*, an IRA, 401(a) plan, 403(a) plan, 403(b) plan, or governmental 457(b) plan, including Roth arrangements. The relief is limited to aggregate distributions of \$100,000. The relief applies to such distributions made at any time during the 2020 calendar year.

**Individuals Eligible for Withdrawal and Loan Relief.** Only a “qualified individual” is eligible for the withdrawal and loan relief provided under the CARES Act. A “qualified individual” is an individual in one of the following categories:

- The individual is diagnosed with the virus SARS-CoV-2 or with coronavirus disease 2019 (“COVID-19”) by a test approved by the Centers for Disease Control and Prevention;
- The individual’s spouse or dependent is diagnosed with such virus or disease; or
- The individual experiences adverse financial consequences as a result of being quarantined, being furloughed or laid off or having work hours reduced due to such virus or disease, being unable to work due to lack of child care due to such virus or disease, closing or reducing hours of a business owned or operated by the individual due to such virus or disease, or other factors as determined by Internal Revenue Service.

The CARES Act provides that the administrator of an eligible retirement plan may rely on an employee’s certification that the employee is a qualified individual as defined above.

While the CARES Act provides for special federal tax treatment for coronavirus-related distributions from IRAs and most types of qualified retirement plans, this favorable tax treatment may not apply for state and local tax purposes. **Consequently, you should consult a professional tax adviser for tax advice as to your particular situation.**

## IMPORTANT INFORMATION REGARDING THE INVESTMENT PORTFOLIOS

**You bear the entire investment risk for amounts you allocate to any investment portfolio (“fund”), and you may lose your principal. The investment results of the funds are likely to differ significantly and there is no assurance that any of the funds will achieve their respective investment objectives. You should carefully consider the investment objectives, risks and charges and expenses of the funds before investing. More information is available in the fund prospectuses. Shares of the funds will rise and fall in value and you could lose money by investing in the funds. Shares of the funds are not bank deposits and are not guaranteed, endorsed or insured by any financial institution, the Federal Deposit Insurance Corporation or any other government agency. Except as noted, all funds are diversified, as defined under the 1940 Act.**

The following table reflects the funds that are open and available for transfers under your Contract along with each fund’s investment adviser/subadviser and investment objective. Please refer to the fund prospectuses for more detailed information. Fund prospectuses may be obtained free of charge from Customer Service at P.O. Box 9271, Des Moines, Iowa 50306-9271 or call 1-800-366-0066, or access the Securities and Exchange Commission (“SEC”) website (<http://www.sec.gov>), or by contacting the SEC Public Reference Room. If you received a summary prospectus for any of the funds available through your Contract, you may obtain a full prospectus and other fund information free of charge by either accessing the internet address, calling the telephone number or sending an email request to the email address shown on the front of the fund’s summary prospectus.

Fund Name and Investment Adviser/Subadviser	Investment Objective
<b>Janus Henderson Enterprise Portfolio</b> <b>(Institutional Class)</b>  <b>Investment Adviser:</b> Janus Capital Management LLC (Janus Capital)	Seeks long-term growth of capital.
<b>Janus Henderson Flexible Bond Portfolio</b> <b>(Institutional Class)</b>  <b>Investment Adviser:</b> Janus Capital Management LLC (Janus Capital)	Seeks to obtain maximum total return, consistent with preservation of capital.

<b>Fund Name and Investment Adviser/Subadviser</b>	<b>Investment Objective</b>
<b>Voya Balanced Portfolio (Class I)</b>  <b>Investment Adviser:</b> Voya Investments, LLC <b>Subadviser:</b> Voya Investment Management Co. LLC	Seeks total return consisting of capital appreciation (both realized and unrealized) and current income; the secondary investment objective is long-term capital appreciation.
<b>Voya Global Bond Portfolio (Class I)</b>  <b>Investment Adviser:</b> Voya Investments, LLC <b>Subadviser:</b> Voya Investment Management Co. LLC	Seeks to maximize total return through a combination of current income and capital appreciation.
<b>Voya Global High Dividend Low Volatility Portfolio (Class S)<sup>(1)(2)</sup></b>  <b>Investment Adviser:</b> Voya Investments, LLC <b>Subadviser:</b> Voya Investment Management Co. LLC	Seeks long-term capital growth and current income.
<b>Voya Government Money Market Portfolio* (Class I)</b>  <b>Investment Adviser:</b> Voya Investments, LLC <b>Subadviser:</b> Voya Investment Management Co. LLC	Seeks to provide high current return consistent with preservation of capital and liquidity, through investment in high-quality money market instruments while maintaining a stable share price of \$1.00.
<b>* There is no guarantee that the Voya Government Money Market Portfolio subaccount will have a positive or level return.</b>	
<b>Voya Growth and Income Portfolio (Class I)</b>  <b>Investment Adviser:</b> Voya Investments, LLC <b>Subadviser:</b> Voya Investment Management Co. LLC	Seeks to maximize total return through investments in a diversified portfolio of common stock and securities convertible into common stocks. It is anticipated that capital appreciation and investment income will both be major factors in achieving total return.
<b>Voya International High Dividend Low Volatility Portfolio (Class I)<sup>(1)</sup></b>  <b>Investment Adviser:</b> Voya Investments, LLC <b>Subadviser:</b> Voya Investment Management Co. LLC	Seeks maximum total return.
<b>Voya Intermediate Bond Portfolio (Class I)</b>  <b>Investment Adviser:</b> Voya Investments, LLC <b>Subadviser:</b> Voya Investment Management Co. LLC	Seeks to maximize total return consistent with reasonable risk. The Portfolio seeks its objective through investments in a diversified portfolio consisting primarily of debt securities. It is anticipated that capital appreciation and investment income will both be major factors in achieving total return.
<b>Voya Large Cap Growth Portfolio (Class I)</b>  <b>Investment Adviser:</b> Voya Investments, LLC <b>Subadviser:</b> Voya Investment Management Co. LLC	Seeks long-term capital growth.
<b>Voya MidCap Opportunities Portfolio (Class I)</b>  <b>Investment Adviser:</b> Voya Investments, LLC <b>Subadviser:</b> Voya Investment Management Co. LLC	Seeks long-term capital appreciation.

Fund Name and Investment Adviser/Subadviser	Investment Objective
<b>VY® T. Rowe Price Diversified Mid Cap Growth Portfolio (Class I)</b>	Seeks long-term capital appreciation.
<b>Investment Adviser:</b> Voya Investments, LLC	
<b>Subadviser:</b> T. Rowe Price Associates, Inc.	

- <sup>(1)</sup> This fund employs a managed volatility strategy. A managed volatility strategy is a strategy that is intended to reduce the fund's overall volatility and downside risk, and thereby, help us manage the risks associated with providing certain guarantees under the contract. During rising markets, the hedging strategies employed to manage volatility could result in your account value rising less than would have been the case if you had been invested in a fund with substantially similar investment objectives, policies and strategies that does not utilize a volatility management strategy. In addition, the cost of these hedging strategies may have a negative impact on performance. On the other hand, investing in funds with a managed volatility strategy may be helpful in a declining market with higher market volatility because the hedging strategy will reduce your equity exposure in such circumstances. In such cases, your account value may decline less than would have been the case if you had not invested in funds with a managed volatility strategy. There is no guarantee that a managed volatility strategy can achieve or maintain the fund's optimal risk targets, and the fund may not perform as expected.
- <sup>(2)</sup> Prior to May 1, 2020, this fund was known as the Voya Global Equity Portfolio.